



U.S. FOOD AND DRUG ADMINISTRATION MUIRKIRK ROAD CAMPUS MASTER PLAN

Final Environmental Impact Statement
Appendix F – Transportation Management Plan

March 2023

Prepared by:



In cooperation with:



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Transportation Management Plan for U.S. Food and Drug Administration Muirkirk Road Campus



General Services Administration



February 2023

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Acronyms

AADT	Average Annual Daily Traffic
AAWDT	Average Annual Weekday Traffic
AR	Annual Attainment Report on Transportation System Performance
BPMP	Bicycle and Pedestrian Master Plan
COMAR	Code of Maryland Regulation
CTP	Consolidated Transportation Program
ETC	Employee Transportation Coordinator
FDA	U.S. Food and Drug Administration
GIS	Geographic Information System
GSA	U.S. General Services Administration
HOT	High Occupancy Toll Lanes
ITE	Institute of Transportation Engineers
LOS	Level of Service
MARC	Maryland Area Regional Commuter
MDOT	Maryland Department of Transportation
M-NCPPC	Maryland-National Capital Park and Planning Commission
MPO	Metropolitan Planning Organization
MPoT	Master Plan of Transportation
MRC	Muirkirk Road Campus
MTA	Maryland Transit Administration
MWCOG	Metropolitan Washington Council of Governments
NTS	Not to Scale
NCPC	National Capital Planning Commission
NCR	National Capital Region
NOAA	National Oceanic and Atmospheric Administration
NPS	National Park Service
MTP	Maryland Transportation Plan
SHA	State Highway Administration
RTA	Regional Transportation Agency of Central Maryland
SOV	Single-Occupancy Vehicle
SRT	State Report on Transportation
TDM	Transportation Demand Management
TERMs	Transportation Emission Reduction Measures

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TIP	Transportation Improvement Program
TIS	Traffic Impact Study
TMP	Transportation Management Plan
TNC	Transportation Network Company
TOD	Transit Oriented Development
TPB	Transportation Planning Board for the National Capital Region
TSOP	Transit Services Operating Plan
V/C	Volume-to-Capacity Ratio
WMATA	Washington Metropolitan Area Transit Authority

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Glossary

Autonomous Vehicles	A vehicle that is capable of operating on public roadways and in mixed traffic without the aid of a human driver.
Bikeshare	A service in which bicycles are made available for shared use to individuals on a short-term basis.
Bus Rapid Transit	A high-quality bus-based transit system that delivers efficient service that may include dedicated lanes, busways, traffic signal priority, off-board fare collection, elevated platforms and enhanced stations.
Carpool/Vanpool	An arrangement among a group of commuters that live and work within the same area to commute together in one vehicle, rather than driving individually.
Connected Vehicles	Vehicles that have the capability of communicating with other vehicles and infrastructure to improve operation and safety.
Employee Transportation Coordinator (ETC)	An employee or contractor whose responsibility is to administer and manage a TDM program.
Flexible/Alternative Work Schedule	An alternative work schedule that allows employees to work additional hours for a portion of a work week to take an additional day off. For example, four 10-hour workdays, rather than five 8-hour workdays.
Guaranteed Ride Home	The Guaranteed Ride Home (GRH) program provides commuters who regularly (twice a week) carpool, vanpool, bike, walk or take transit to work with a free and reliable ride home when unexpected emergencies arise. The existing GRH program sponsored by Metropolitan Washington Council of Governments provides up to four annual free rides home to registered commuters for unexpected personal emergencies or unscheduled overtime.
Last Mile Connectivity	Mobility solutions to connect transportation hub with user's final destination.
Rideshare	Transportation in a private vehicle driven by its owner, for free or for a fee, especially as arranged by means of a website or app.
Telecommuting	A program that allows an employee to work from home or at an off-site location at least one day per week.
Transit/Vanpool Subsidies	A financial incentive designed to encourage commuters to use public transit (or vanpools) by providing them with a monthly payment to cover a portion of their commuting expenses.
Transportation Demand Management	Strategies and policies that encourage employees to commute via other modes than driving alone, such as transit, carpool/vanpool, or walking and biking.
Transportation Network Company	A company, such as Uber and Lyft, providing rideshare services.
Transportation Management Plan	A guide to the implementation of transportation demand management strategies/policies that is specific to an employer.

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1 **EXECUTIVE SUMMARY**

2 The U.S. General Services Administration (GSA), National Capital Region (NCR), on behalf of and
3 in cooperation with the U.S. Food and Drug Administration (FDA), is engaging in a master
4 planning effort for the Muirkirk Road Campus (MRC) to consolidate additional FDA employees to
5 the MRC. The main entrance to the MRC is at 8301 Muirkirk Road. The campus lies two miles east
6 of the terminus of Maryland Route 200, 1.5 miles northwest of the Powder Mill Road/Baltimore-
7 Washington Parkway interchange, and 11 driving miles from FDA's headquarters campus at the
8 Federal Research Center (FRC). FDA owns 249 acres of land at Muirkirk Road, of which 197 acres
9 is the West Parcel and is bounded to the north by Muirkirk Road and residential properties; to the
10 east by Odell Road and the MRC East Parcel; to the south by Odell Road, the Beltsville
11 Information Management Center, and the Special Collection Service; and to the west by
12 Ellington Drive. There are currently 300 employees located at the MRC West Parcel. The Master
13 Plan will include additional office, laboratory, and shared use spaces to support a total
14 population of 1,800 by 2040.

15 This TMP reflects Master Plan action alternative B, the preferred alternative. This action alternative
16 consists of three phases of development on the MRC West Campus. Phase 1 will consist of the
17 relocation of some on-campus employees from an existing aging building to other buildings on
18 the campus and a new building located south of the existing MOD 2. It is anticipated that Phase
19 1 will be completed by 2025. Phase 2 represents the first phase of growth on the campus and is
20 anticipated to occur around 2030 with the consolidation of 168 additional employees, bringing
21 the total site population to approximately 468. The timing of the additional 1,332 employees
22 (total site population of 1,800) is not known at this time but is assumed to be a gradual increase
23 within a 20-to-30-year time frame with a horizon year of 2040 chosen as a benchmark for the
24 analysis (Phase 3).

25 The proposed action will result in an increase in vehicle trips to and from the MRC, particularly
26 during the AM and PM peak commuter periods in Phases 2 and 3. Furthermore, National Capital
27 Planning Commission (NCPC) parking requirements limit the amount of parking that can be
28 provided on the Campus to one parking space for every two employees, resulting in a
29 maximum single-occupancy vehicle (SOV) mode share of 50 percent. Therefore, a
30 transportation management plan (TMP) is necessary to provide employees with a variety of
31 commute modes so that the number of SOV trips can be minimized to reach the 50 percent
32 goal.

33 In order to understand existing and potential future commute patterns, an employee survey was
34 conducted via the internet (SurveyMonkey) for a three-week period from November 16, 2020 to
35 December 4, 2020. The survey was distributed via email to the 174 full-time FDA employees
36 (excluding contractors) currently employed at the MRC West Campus to investigate the current
37 modes by which employees travel to work, working hours, telecommuting, origin/destination,
38 possible improvements to transit options, reasons for mode choice, and long-term impacts of the
39 COVID-19 pandemic on work habits. One hundred fifteen employees, or approximately 66

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1 percent of those surveyed, responded. A survey of potential employees that would be
2 consolidated to the MRC West Campus was not possible because these employee populations
3 were not known. However, this report utilizes home zip code and mode share information for off-
4 campus employees obtained from a survey conducted in 2017 for FDA Headquarters White Oak
5 Campus. This survey included some of the off-campus building locations occupied by FDA
6 employees that could be consolidated to the MRC West Campus.

7 **Purpose**

8 The purpose of this report is to assess existing and projected future commuting patterns of the
9 MRC West Campus employees and develop a TMP that:

- 10 • Reduces SOV trips;
- 11 • Promotes the use of alternative transportation modes, such as transit, carpooling, and
12 vanpooling; and,
- 13 • Increases vehicle occupancy.

14 **Goals**

15 Based on the results of the MRC West Campus employee survey, 97 percent of employees
16 currently drive alone to work, and of those that drive alone, only 17 percent would be willing to
17 consider alternative travel modes if more transit options were available. Furthermore, based on
18 the 2017 FDA off-campus employee survey, approximately 86 percent of employees drive to the
19 various off-campus office locations, with only 32 percent saying that they would be willing to
20 consider an alternative travel mode. This reliance on personal vehicles, in combination with the
21 exurban location of the MRC West Campus, presents a significant challenge to achieving the 50
22 percent SOV goal that is required as part of the parking maximum.

23 However, the Department of Health and Human Services has provided guidance to its agencies
24 (including the FDA) to continue to allow employees to work from home post-COVID and
25 established guidance for the minimum number of days employees should be in the office.
26 Therefore, it is likely that teleworking will continue to be a significant trip reduction measure.
27 While 61% of existing MRC West Campus employees do not telework on a regular basis because
28 they need access to laboratories, equipment, and animals on the campus, it is therefore likely
29 that teleworking policies may not initially have a significant trip reduction effect on MRC-
30 generated vehicle trips. However, as employees from other office locations are consolidated to
31 the MRC West Campus, the potential for teleworking may be greater.

32 In addition to encouraging teleworking through the new post-COVID policy, the Master Plan
33 reflects parking in each phase that will be in accordance with the NCPC required ratio of one
34 space per two employees. Therefore, while teleworking will likely be an asset and challenge to
35 transportation demand management at the MRC West Campus, other strategies need to be
36 considered to achieve the 50% SOV mode share reduction. However, it should also be
37 recognized that a high telework mode share will also make other strategies, such as
38 carpool/vanpool and enhanced transit connections, more challenging because work schedules

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1 will be more varied, and the average on-site population could be too low to support higher-cost
2 strategies.

3 Thus, in addition to supporting teleworking, this TMP outlines a strategy to increase the number
4 and quality of options for travel to and from the campus by leveraging the combined resources
5 of other nearby campuses and enhancing connections to the community, as well as
6 encourages working from home on peak commuting days (Tuesday through Thursday). As such,
7 the overall goal of the TMP is to increase non-SOV mode share to at least 50 percent by 2030.

8 **Transportation Demand Management**

9 People choose their mode of travel based on several factors, including convenience, cost, time,
10 habit/familiarity, reliability, punctuality, frequency, cleanliness, and safety. An effective
11 Transportation Demand Management (TDM) program provides a variety of strategies that affect
12 one or more of these factors. The approach to TDM at the MRC West Campus will have to be
13 tailored to the unique needs of the site. The exurban location of the MRC West Campus, as well
14 as the lack of transit options, will make it a significant challenge to encourage a reduction in the
15 number of employees driving alone.

16 Furthermore, COVID-19 has had a significant impact on travel and will likely continue to have an
17 impact on commuting within the near future. While the survey indicates that most existing MRC
18 West Campus employees anticipate coming back to the campus once the pandemic subsides
19 to access the laboratories and other resources on campus to perform their work, recent policy
20 guidance may allow other employees that are to be consolidated at the MRC West Campus to
21 work remotely more often. However, the duration of the impacts to commuting will continue to
22 be dependent on the perceived risk of the virus, and a personal and organizational re-
23 evaluation of the comfort, convenience, and desirability of telecommuting, as well as transit
24 and carpooling/vanpooling. These impacts will put added challenges on the MRC West
25 Campus. Therefore, the TMP considers ways to heavily incentivize desired behaviors through
26 enhanced facilities on and off the campus, as well as policies that recognize and reward those
27 that are choosing other commute modes for those employees that will be working on-campus
28 on any given day.

29 As noted earlier in this report, a variety of strategies will be needed to achieve the SOV
30 reduction goals identified in this report (50 percent non-SOV by 2030). As such, the overall
31 approach to TDM on the MRC West Campus will be multi-fold and follow the general principles
32 below:

1

-  **Conduct outreach and education, and provide on-site amenities** to encourage, support, and de-stigmatize non-SOV commute modes.
-  **Enhance transit services and connections** to make it a more viable option, particularly for those living along the MARC Camden line and along the Metrorail Yellow and Green lines.
-  **Provide flexible non-transit options** for employees whom transit is not a viable or attractive option.
-  **Reduce peak period travel demand** by incentivizing working from home or flexible work hours on peak commuting days.
-  **Enhance connections to the adjacent community** to encourage living near the campus and walking/biking to the MRC.

1

2 **Strategies and Implementation**

3 After careful consideration of site-specific needs, a series of TDM strategies and recommended
4 implementation timelines were developed to reduce SOV trips at the MRC West Campus (see
5 Section 5.0 for specific recommendations for each type of strategy and Section 6.0 for
6 implementation guidance). While the first phase of growth at the MRC West Campus is
7 approximately five years out, many of the proposed strategies recommended in this TMP will
8 require design considerations, planning, coordination with employees, and acquisition of
9 funding, while others could be implemented relatively efficiently with the existing employees
10 and expanded to consolidated/new employees. The below implementation strategy provides a
11 roadmap for FDA to ensure that resources and facilities are available as soon as they are
12 needed, and is divided into four phases:

- 13 • **Phase 1 (within 5 years):** Reduce the number of available employee parking spaces and
14 delineate visitor parking. Create a commuter website for the TMP and assign a contact
15 person that can coordinate with MRC West Campus employees. Review TMPs and
16 commuting policies of other nearby agencies to identify opportunities to coordinate TDM
17 efforts, including enhanced access to transit and shuttle connections. Begin to
18 implement strategies that are appropriate for the onsite population and identify and
19 secure funding for recommendations. Ensure that the design of onsite facilities, such as
20 the transit center, incorporate specifications for transit vehicles, TNC's, etc.
- 21 • **After Phase 2 Consolidation (within 5 – 10 years):** Continue planning, funding, and design
22 process for larger-scale recommendations. Incorporate consolidated/new employees
23 into the strategies as they move into new on-campus facilities. This phase of the TMP

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1 implementation is predicated on the timeline of construction Phase 2 of the Master Plan.
2 If the completion of Phase 2 is delayed, the start of this implementation phase would also
3 be delayed. Furthermore, the ability to achieve the 1:2 parking ratio is predicated on the
4 staff that is consolidated to the campus in this phase. A higher proportion of laboratory
5 staff, which typically work on campus more often due to the need to access lab
6 equipment, will make it harder to achieve this goal.

- 7 • **Phase 3 Full Site Population (within 10 – 20 years):** All recommended TDM strategies
8 should be implemented and available to all employees, support staff, and contractors.
9 Evaluate the need for additional measures that may be needed to maintain or exceed
10 the 50% SOV requirement given the anticipated significant increase in population in this
11 phase. This phase of the TMP implementation is predicated on the timeline of
12 construction for the full build-out of the master plan. Furthermore, the ability to achieve a
13 1:2 parking ratio is predicated on the availability of high-quality transit within proximity of
14 the MRC West Campus.
- 15 • **Maintenance Phase (beyond 20 years):** Continue to monitor TMP needs. Track new
16 technology and incorporate new strategies as needed.

17 As noted earlier, the MRC West Campus currently has a relatively low population with an SOV
18 mode share of 97%. Although the NCPC parking maximum requirement of one space per two
19 employees would require an SOV mode share of 50%, it may not be possible to meet these goals
20 immediately upon initiation of the TMP, outside of a structured teleworking policy and physical
21 parking supply reductions. Many of the recommended strategies would require a larger
22 employee population to support. Table E-1 shows the implementation stages and how each
23 category of recommendation would help to get the MRC West Campus to the ultimate 50%
24 SOV mode share goal.

25 The implementation matrices that follow Table E-1 list the implementation steps for each strategy
26 by phase. The percentages listed with each strategy should be considered as mode share goals
27 to expand beyond what is currently being done to meet the ultimate 50% SOV requirement.
28 Strategies without a percentage goal are considered supportive to other TDM strategies, and
29 thus do not have a separate mode share goal. However, FDA has the flexibility achieve the
30 overall goal utilizing any combination of strategies.

31 Furthermore, a higher percentage of employees teleworking would likely work against the
32 viability of other programs such as carpooling/vanpooling and transit. More variability and less
33 frequency in commute trips to the MRC West Campus on any given weekday may make it
34 harder to justify more costly transit, pedestrian and bicycle connections discussed in this report.
35 Commuting trends and policies should continue to be monitored to adjust strategies according
36 to employee needs.

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1 Table E-1: Phasing Strategy

Phase	Timeframe	Mode Share by Phase (Parking Ratio)	
Phase 1	Within 5 Years	<p>Starting SOV Mode Share (Parking Ratio): 97% (1:0.94)</p> <p>Reduce the number of available employee parking spaces: 0%</p> <p>Delineate 35 visitor parking spaces: 0%</p> <p>Provide commute website and contact person for MRC West Campus staff: 0%</p> <p>Review TMPs of other nearby agencies to identify opportunities to coordinate: 0%</p> <p>Telework/Flex Days: 25%</p> <p>Resulting SOV Mode Share (Parking Ratio): 75% (1:1.33)</p>	
Phase 2 (2030) 168 Additional Employees	5 – 10 Years (subject to change based on construction timeline)	<p>Starting SOV Mode Share: 75% (1:1.33)</p> <p>Carpool/Vanpool: 1%</p> <p>Accommodate Flexible Mobility: 1%</p> <p>Telework/Flex Days: 44%</p> <p>Parking Policies: 2%</p> <p>Ped/Bike: 1%</p> <p>Local Transit: 1%</p> <p>Resulting SOV Mode Share: 50% (1:2)</p>	
Phase 3 (2040) Full Site Population	10 – 20 Years (subject to change based on construction timeline and availability of high-quality transit)	<p>Starting SOV Mode Share: 50% (1:2)</p> <p>Connection to Muirkirk Station: 2%</p> <p>Connection to Metrorail: 2%</p> <p>New/Improved Transit: 1%</p> <p>Carpool/Vanpool: 3%</p> <p>Connect to White Oak Campus: 1%</p> <p>Accommodate Flexible Mobility: 1%</p> <p>Telework/Flex Days: 35%</p> <p>Parking Policies: 1%</p> <p>Ped/Bike Connections: 2%</p> <p>Local Transit: 2%</p> <p>Resulting SOV Mode Share: ≤50% (≤1:2)</p>	
Maintenance Phase	>20 Years	Target Mode Share:	<50% (<1:2)

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Conduct outreach and education, and provide on-site amenities to encourage, support, and de-stigmatize non-SOV commute modes.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Employee Transportation Coordinator (ETC)	<ul style="list-style-type: none"> Develop commute website and assign contact person to coordinate with MRC West Campus employees regarding their commutes. Coordinate with other nearby agencies or campuses to evaluate the feasibility of combining TDM strategy efforts. Begin development of a monitoring and evaluation program. Compile and distribute educational information regarding available commute modes and develop package for new employees. Begin implementing responsibilities outlined in Section 5.1.1.1. 	<ul style="list-style-type: none"> Continue coordination with other nearby agencies and campuses to manage TDM strategy implementation. Provide ETC on site at the MRC West Campus. Begin monitoring and evaluation, including the biennial reports required by NCPC 	<ul style="list-style-type: none"> Continue all ETC responsibilities listed in Section 5.1.1.1. Update TMP to account for new transportation and commute technology and trends. 	<ul style="list-style-type: none"> Evaluate need for additional staff. Continue to re-evaluate TDM strategies and implementation.
Commute Management Platform	<ul style="list-style-type: none"> Explore the feasibility of utilizing a commute management platform like RideAmigos or Luum. 	<ul style="list-style-type: none"> Implement commute management platform like RideAmigos or LUUM. 	<ul style="list-style-type: none"> Re-evaluate commute management platform. 	<ul style="list-style-type: none"> Continue re-evaluation of commute management platform options.
On-Site Amenities	<ul style="list-style-type: none"> Ensure that on-site amenities remain components of the site during the implementation of the Master Plan. Begin initial planning and design for the transportation hub. Evaluate the demand for providing fleet vehicles, carsharing, or a transportation network company (TNC) account for employees that need to travel to work during the day. 	<ul style="list-style-type: none"> If warranted, provide fleet vehicles, carsharing, or a TNC account for employees that need to travel for work during the day. Construct visitor center/transportation hub. 	<ul style="list-style-type: none"> Consider new amenities as new transportation technology becomes available. Develop a policy for accommodating autonomous vehicles onsite. 	<ul style="list-style-type: none"> Consider new amenities as new transportation technology becomes available.

2

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Enhance transit services and connections to make it a more viable option, particularly for those living along the MARC Camden line and along the Metrorail Yellow and Green lines.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Connect to Muirkirk Station (1% – 3%)	<ul style="list-style-type: none"> Assess the feasibility of providing a shuttle connection to the Muirkirk MARC station. 	<ul style="list-style-type: none"> Continue to assess the feasibility of providing a shuttle connection to the Muirkirk MARC station. 	<ul style="list-style-type: none"> Begin peak period shuttle service to and from the Muirkirk station if warranted. 	<ul style="list-style-type: none"> Re-evaluate need for shuttle service a new travel trends and technology become available.
Connect to Metrorail (1% - 3%)	<ul style="list-style-type: none"> Assess the feasibility of providing a shuttle connection to the College Park Metrorail station, and/or Greenbelt Metrorail station. Consider coordinating with other nearby agencies and campuses to provide this shuttle service. 	<ul style="list-style-type: none"> Continue to assess the feasibility of providing a shuttle connection to the College Park Metrorail station, and/or Greenbelt Metrorail station. Consider coordinating with other nearby agencies and campuses to provide this shuttle service. 	<ul style="list-style-type: none"> If potential ridership demand warrants, begin peak period shuttle service to and from the College Park Metrorail station and/or Greenbelt Metrorail station. 	<ul style="list-style-type: none"> Re-evaluate need for shuttle service a new travel trends and technology become available.
New/ Improved Transit Services (1% - 3%)	<ul style="list-style-type: none"> Coordinate with Washington Metropolitan Area Transit Authority (WMATA), Maryland Transit Administration (MTA), and Regional Transportation Agency (RTA) to identify the conditions required to provide new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> Construct visitor center/transportation hub. Continue coordination with WMATA, MTA, and RTA to evaluate the feasibility of new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> Coordinate with WMATA, MTA, and RTA to implement new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> Continue coordination with agencies to maximize impact of new services, technologies, and commuting trends.
Additional Transit Incentives/ Programs	<ul style="list-style-type: none"> Continue to assist employees in registering for a guaranteed ride home service. Continue to assist employees with obtaining the highest allowable transit subsidies. 	<ul style="list-style-type: none"> In new transit connections are provided, conduct on-board informational campaigns for MRC West Campus employees. Establish public transit user group and implement transit ambassador program. 	<ul style="list-style-type: none"> Continue strategies as needed. 	<ul style="list-style-type: none"> Continue strategies as needed.

2

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Provide flexible non-transit options for employees whom transit is not a viable or attractive option.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Carpool/ Vanpool (3% - 5%)	<ul style="list-style-type: none"> Aggregate employee zip codes and identify potential carpool/vanpool corridors. Assist employees in registering for a guaranteed ride home service. 	<ul style="list-style-type: none"> Begin carpool and vanpool ride matching for existing employees at the MRC West Campus, if carpooling/vanpooling returns as a viable commute mode based on teleworking trends. Hold meetings of the carpoolers/vanpoolers and help them identify meeting spots and resolve any potential issues. Implement a method for access to transportation during the day. Provide electric vehicle charging stations. 	<ul style="list-style-type: none"> Implement carpool and vanpool corridors along I-270 and I-95/U.S. 29. Continue to monitor carpool and vanpool program and adjust program as needed. Evaluate need for additional electric vehicle charging stations. 	<ul style="list-style-type: none"> Monitor carpool and vanpool program and adjust based on transportation trends and technology.
Connect to White Oak Campus (1% - 2%)	<ul style="list-style-type: none"> Begin exploring the need for and feasibility of a shuttle connection between the White Oak Campus and the MRC West Campus. 	<ul style="list-style-type: none"> If warranted by potential ridership, begin shuttle service between the White Oak Campus, or other FDA office locations, and the MRC West Campus. 	<ul style="list-style-type: none"> If warranted, begin shuttle service between the White Oak Campus, or other FDA office location, and the MRC West Campus. 	<ul style="list-style-type: none"> Re-evaluate need for shuttle service a new travel trends and technology become available.
Accommodations for Flexible Mobility (0% - 1%)	<ul style="list-style-type: none"> Work with FDA leadership to develop a policy for accommodating TNCs, carsharing or fleet vehicles, and autonomous vehicles. 	<ul style="list-style-type: none"> Provide electric vehicle charging stations. 	<ul style="list-style-type: none"> Finalize plan for accommodating autonomous vehicles onsite. 	<ul style="list-style-type: none"> Continue to respond to changing mobility needs and technology.

2

TRANSPORTATION MANAGEMENT PLAN

Executive Summary



Reduce peak period travel demand by incentivizing working from home or flexible work hours on peak commuting days.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
<p>Tele-commuting/ Flexible and Alternative Work Schedules (20% - 40%)</p>	<ul style="list-style-type: none"> • Work with managers to identify jobs/employees that would be good candidates for telecommuting. • Establish a reservation system that will allow employees to see how many people are planned to be on-site on a particular day and to “reserve” a workstation and/or parking space. • Work with FDA leadership to establish a core set of hours that provides employees with the flexibility to arrive off-peak and work with managers to identify opportunities for compressed days off. • Develop an incentive plan to encourage telecommuting and utilization of their compressed day off on peak commuting days. 	<ul style="list-style-type: none"> • Extend telecommuting and flexible work schedule policies to the consolidated employees. • Implement and enforce carpool/vanpool parking spaces. 	<ul style="list-style-type: none"> • Extend telecommuting and flexible work schedule policies to the consolidated employees. 	<ul style="list-style-type: none"> • Evaluate additional incentives for demand balancing of teleworking, flexible work schedule, and alternative work schedule employees, as needed.
<p>Parking Policies (3% - 5%)</p>	<ul style="list-style-type: none"> • Begin to develop revised parking policies to include designated and enforced carpool/vanpool parking spaces. 	<ul style="list-style-type: none"> • Determine the feasibility of adjusting regulations to permit a trial run of a “three for free” program whereby parkers are offered a free transit pass for three months in return for giving up their parking. • Monitor preferential parking and provide additional parking spaces as needed. • Evaluate the need for other parking strategies discussed in Section 5.1.4.3. 	<ul style="list-style-type: none"> • Monitor preferential parking and provide additional parking spaces as needed. • Evaluate the impact of autonomous vehicles on parking. Consider redesigning parking facilities to condense parking for autonomous vehicles and alternative uses for parking structures. • If feasible, fully implement “three for free” program whereby parkers are offered a free transit pass for three months in return for giving up their parking. 	<ul style="list-style-type: none"> • Evaluate other parking policies, as needed to help incentivize other modes of transportation.

2

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Enhance connections to the adjacent community to encourage living near the campus and walking/biking to the MRC.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Ped/Bike Connections (1% - 2%)	<ul style="list-style-type: none"> • Ensure that future site improvements include enhancements for pedestrians and bicyclists, including bike storage. • Ensure that future building designs include shower and locker facilities. • Begin discussions with Prince George’s County and Maryland Department of Transportation State Highway Administration (SHA) regarding the planning and design of pedestrian and bicycle facilities along Muirkirk Road. • Encourage employees to use ridesharing apps for trips during the day. • Designate a TNC vehicle pick-up/drop-off area. 	<ul style="list-style-type: none"> • Complete internal enhancements for pedestrians and bicyclists, including installation of bike storage. • Coordinate with Prince George’s County and SHA to complete the design of the recommended pedestrian and bicycle facilities on Muirkirk Road. • Work with other nearby agencies and campuses to advocate for improved pedestrian and bicycle infrastructure throughout the area. • Organize a pedestrian and bicycle commuter group. 	<ul style="list-style-type: none"> • Coordinate with Prince George’s County and SHA to complete the construction of the recommended pedestrian and bicycle facilities on Muirkirk Road. • Work with the County and SHA to construct other planned facilities in the area, including those along Odell Road. • Coordinate with Prince George’s County to provide bike or scooter sharing for employees to utilize during the day and to commute to and from the Muirkirk station. Consider coordinating with a deployment of other stations throughout the area. • Begin a pedestrian and bicycle user group on campus to discuss issues with walking and biking, form walk and bike commute groups, and help FDA advocate for off-campus improvements. 	<ul style="list-style-type: none"> • Continue to monitor pedestrian and bicycle needs.
Enhance Local Transit (0% - 1%)	<ul style="list-style-type: none"> • Coordinate with Washington Metropolitan Area Transit Authority (WMATA), Maryland Transit Administration (MTA), and Regional Transportation Agency (RTA) to identify the conditions required to provide new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> • Work with RTA, MTA, and WMATA to determine if new or modified transit services to the MRC West Campus are feasible. 	<ul style="list-style-type: none"> • Continue to Work with RTA, MTA, and WMATA to determine if new or modified transit services to the MRC West Campus are feasible. 	<ul style="list-style-type: none"> • Continue to Work with RTA, MTA, and WMATA to determine if new or modified transit services to the MRC West Campus are feasible.

2

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1 **Monitoring**

2 This TMP is a flexible document that is intended to be shaped and reshaped as commuting
3 patterns and needs change. Each of the TDM strategies must be evaluated and changed as
4 the program grows to ensure that the needs of the employees are being met and that the
5 overall SOV reduction goals are achieved. NCPC has determined that regular reporting is a
6 critical component to the overall success of a TDM program, and thus requires biennial reporting
7 for all facilities with master plans or for projects that have transportation implication, including
8 those that seek a parking ratio deviation. The MRC West Campus is not currently in compliance
9 with the required parking ratio.

10 Changes to infrastructure, transit services, and travel trends can impact the effectiveness of the
11 proposed strategies. Thus, it is important to begin monitoring upon acceptance of the Master
12 Plan and provide updates to the TMP as needed. During each evaluation period, the following
13 steps must be performed:

- 14 • Determine the extent to which each program has achieved its objective.
- 15 • Determine if the site is compliant with NCPC requirements, such as parking maximums.
- 16 • Plan the degree of consistency of program implementation.
- 17 • Detail the relationship of different strategies to the effectiveness of the overall program.

18 In addition to the required biennial reporting process, FDA should also utilize information
19 obtained during monitoring to understand how the TDM strategies are affecting the SOV mode
20 share goals and identify if changes are needed.

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1 1.0 INTRODUCTION

2 The U.S. General Services Administration (GSA), National Capital Region (NCR), on behalf of and
3 in cooperation with the U.S. Food and Drug Administration (FDA), is engaging in a master
4 planning effort for the Muirkirk Road Campus (MRC) to relocate additional FDA employees to
5 the MRC. The campus lies two miles east of the terminus of Maryland Route 200, 1.5 miles
6 northwest of the Powder Mill Road/Baltimore-Washington Parkway interchange, and 11 driving
7 miles from FDA's headquarters campus at the Federal Research Center (FRC). FDA owns 249
8 acres of land at Muirkirk Road, of which 197 acres is the West Parcel and is bounded to the north
9 by Muirkirk Road and residential properties; to the east by Odell Road and the MRC East Parcel;
10 to the south by Odell Road, the Beltsville Information Management Center, and the Special
11 Collection Service; and to the west by Ellington Drive. There are currently 300 employees located
12 at the MRC West Parcel (Figure 1). The Master Plan will include additional office, laboratory, and
13 shared use spaces to support a total population of 1,800 by 2040.

14 This TMP reflects Master Plan action alternative B which is the preferred alternative. This Master
15 Plan action alternative consists of three phases of development on the MRC West Campus.
16 Phase 1 will consist of the relocation of some on-campus employees from an existing aging
17 building to the MOD 2 building and a new building that would be constructed south of MOD 2. It
18 is anticipated that Phase 1 would be completed by 2025. Phase 2 represents the first phase of
19 growth on the campus. It is anticipated to occur around 2030 with the consolidation of 168
20 additional employees, bringing the total site population to approximately 468. The timing of the
21 additional 1,332 employees (total site population of 1,800) is not known at this time but is
22 assumed to be a gradual increase within a 20-to-30-year time frame with a horizon year of 2040
23 chosen as a benchmark for this analysis. (Phase 3).

24 The MRC West Campus is located in a low-density, exurban environment, which poses several
25 challenges that are typical to exurban employment centers. One of the most significant
26 challenges is the limited direct suburb-to-suburb connections that are typical of a transit system,
27 which is typically oriented to the downtown core. The MRC West Campus is currently only served
28 by one bus route and is not within walking distance of any higher frequency, higher capacity
29 transit services. This results in 97 percent of employees commuting by driving alone, with
30 approximately 1 percent using the existing transit. Finally, the campus has a relatively low
31 population, making it difficult to justify the cost of running additional bus or shuttle services to
32 and from the site.

33 Therefore, this Transportation Management Plan (TMP) has been developed to help GSA and
34 FDA encourage employees and visitors to the MRC West Campus to commute by modes other
35 than driving alone. Towards this, the TMP aims to:

- 36 • Inventory existing and future transportation facilities, including the local roadway network,
37 parking, pedestrian, bicycle, and transit;
- 38 • Understand existing and future employee commuting patterns and needs;

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- 1 • Identify transportation demand management (TDM) strategies that reduce single-occupant
- 2 vehicle trips and promote the use of alternative transportation modes such as transit,
- 3 carpooling, and vanpooling;
- 4 • Implement each TDM strategy through a work plan for each product and/or service; and
- 5 • Use specific bases of measurement to effectively monitor and evaluate achievement of
- 6 goals and adjust TDM strategies as necessary.

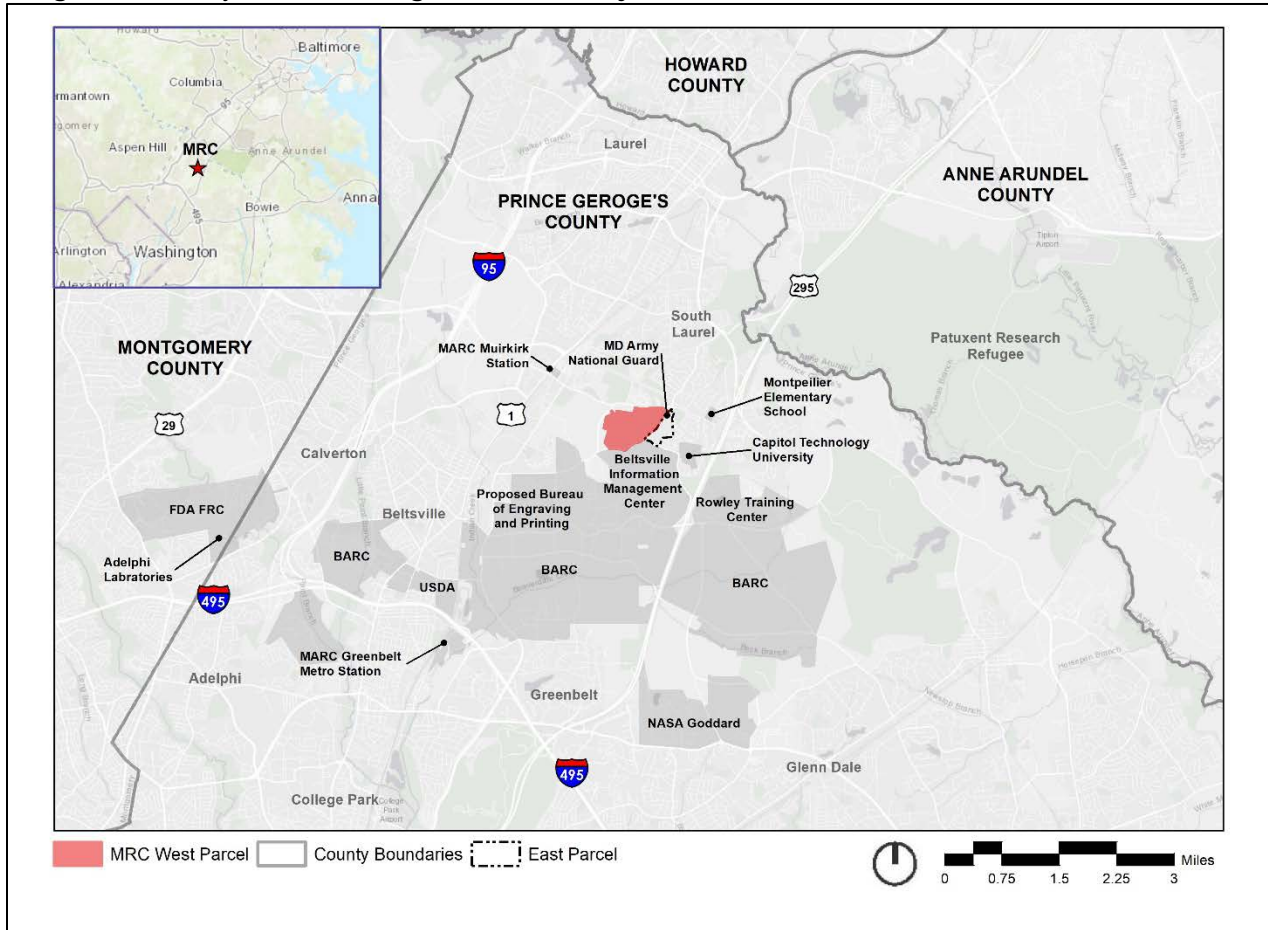


Figure 1: FDA Muirkirk Road Campus Regional Map

1.1 PURPOSE

The purpose of this report is to assess existing and projected future commuting patterns of MRC West Campus employees, researchers, volunteers, visitors, and contractors (staff), and develop a TMP that:

- Reduces the percentage of SOV trips to 50 percent by 2030;
- Promotes the use of alternative transportation modes, such as transit, carpooling, and vanpooling; and,
- Increases vehicle occupancy.

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1 Within the last decade, regional, state, and local planning agencies within the NCR have
2 recognized the critical need to reduce peak period traffic congestion, protect the region's
3 environment, and reduce greenhouse gas emissions. A review of several key planning
4 documents, described herein, reveals that each agency has formulated transportation-related
5 goals and objectives to be achieved through several strategies that are monitored and
6 evaluated with specific performance measures. A common strategy noted in the various key
7 planning documents calls for transportation system improvements and utilization of TDM
8 methods that fully support opportunities to reduce single-occupancy trips and promote
9 alternative modes of transportation.

10 1.1.1 Regional

11 1.1.1.1 National Capital Planning Commission (NCPC)

12 The *Comprehensive Plan for the National Capital* guides planning and development in
13 Washington, DC and the surrounding region. It is a unified plan with two components – the
14 Federal and District Elements. The *Federal Elements*, prepared by NCPC, provide a policy
15 framework for the Federal Government in managing its operations and activity in the NCR. The
16 *District Elements* are developed by the District of Columbia and address traditional city planning
17 issues such as land use, housing, and economic development.

18 The *Federal Elements of the Comprehensive Plan* is a living document that is updated
19 periodically to ensure that policies remain current, reflect recent planning initiatives, and are
20 consistent with federal requirements and guidance. In 2020, NCPC updated the *Transportation*
21 *Element of the Comprehensive Plan for the National Capital*. The updated document proposed
22 a few new guiding principles and consolidated, modified or removed some of the existing
23 policies. The federal parking ratio established by the recently updated *Transportation Element*
24 for "Suburban Areas Beyond Metrorail" is one parking space for every two employees (1:2).

25 The eight *Federal Elements* include Urban Design, Federal Workplace, Foreign Missions &
26 International Organizations, Transportation, Parks & Open Space, Federal Environment, Historic
27 Preservation, and Visitors & Commemoration. The goal within the *Transportation Element* is to
28 "support the development and maintenance of a multimodal transportation system that meets
29 the needs of federal workers, residents, and visitors, while improving regional mobility,
30 transportation access, and environmental quality." There are four main sections of the
31 *Transportation Element* that lay out policies and recommendations regarding advancing an
32 interconnected transportation system (Section A), integrating equitable mobility options
33 throughout the region (Section B), connecting transportation and land use (Section C), and
34 promoting efficient and sustainable travel to federal destinations (Section D).

35 In particular, Section D encourages federal workplaces to utilize TDM strategies to comply with
36 other applicable policies. For example, the completion of a TMP is required by NCPC for all
37 master plans and any projects that result in an increase in the number of employees or visitors
38 travelling to a workplace or other destination, a change in use, or improvements that cause

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1 transportation and circulation impacts. The *Addendum to the Transportation Element* outlines
 2 the organization of the TMP, the procedures to complete each section, and provides guidance
 3 on effective TDM strategies, monitoring, and evaluation.

4 1.1.1.2 Metropolitan Washington Council of Governments (MWCOCG)

5 In 2010, the MWCOCG Board of Directors approved *Region Forward: A Comprehensive Guide for*
 6 *Regional Planning and Measuring Progress in the 21st Century*. MWCOCG's Region Forward
 7 Vision focuses on creating a more prosperous, accessible, livable, and sustainable metropolitan
 8 Washington. It maps out ambitious goals and targets to guide future decisions and measure
 9 progress for land use, transportation, climate & energy, environment, public safety, education,
 10 housing, health & human services, and economy. These are found in Table 1.

11 **Table 1: Goals, Targets, and Indicators for Accessibility Category**

Accessibility		
Goals (pg. 15)	Targets (pgs. 17-25)	Indicator (pg. 26)
<ul style="list-style-type: none"> • Transit-oriented mixed-use communities emerging in Regional Activity Centers that will capture new employment and household growth. • A transportation system that maximizes community connectivity and walkability and minimizes ecological harm to the Region and world beyond. • A variety of housing types and choices in diverse, vibrant, safe, healthy, and sustainable neighborhoods, affordable to persons at all income levels. • A broad range of public and private transportation choices for our Region which maximizes accessibility and affordability to everyone and minimizes reliance upon single occupancy use of the automobile. 	<ul style="list-style-type: none"> • Beginning in 2012, capture 75 percent of the square footage of new commercial construction and 50 percent of new households in Regional Activity Centers • Reduce daily vehicle miles traveled (VMT) per capita • The region's transportation system will give priority to management, performance, maintenance, and safety of all transportation modes and facilities • Transportation investments will link regional Activity Centers • Increase the rate of construction of bike and pedestrian facilities from the Transportation Planning Board's plan • By 2020, the housing and transportation costs in Regional Activity Centers will not exceed 45 percent of area median income • Beginning in 2012, at least 80 percent of new or preserved affordable units will be located in Regional Activity Centers • Increase the share of walk, bike, and transit trips • All Regional Activity Centers will have transit accessibility (bus or rail) 	<ul style="list-style-type: none"> • Triennial Aerial Survey of Freeway Congestion • Vehicle Registration per capita • Transit, bicycle and walk share in Regional Activity Centers • Accessibility to jobs within 45 minutes • Street/node ratio for Regional Activity Centers • Accessibility of passengers and cargo to the region's airports • Square feet of mixed-use development

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1 1.1.1.3 Transportation Planning Board (TPB)

2 The TPB is the metropolitan planning organization (MPO) for metropolitan Washington. In
3 October 2018, the TPB approved the region's new long-range transportation plan, *Visualize 2045*,
4 and on March 18, 2020 it approved the *FY 2021-2024 Transportation Improvement Program (TIP)*.

5 *Visualize 2045* takes a multi-modal approach, relying on multiple travel modes to accommodate
6 anticipated growth and address the region's diverse transportation challenges. In addition to
7 projects that the region's transportation agencies expect to be able to afford between now
8 and 2045, the plan includes aspirational initiatives that go beyond financial constraints. Though
9 the focus of the financially constrained element is on regionally significant road and transit
10 projects, *Visualize 2045* also highlights bicycle and pedestrian projects, freight planning, and
11 other transportation programs aimed at reducing congestion and improving air quality. The plan
12 also highlights how the region is incorporating new federal Performance-Based Planning and
13 Programming (PBPP) requirements into the regional transportation planning process. Overall, the
14 plan aims to:

- 15 • Bring jobs and housing closer together
- 16 • Expand Bus Rapid Transit regionwide
- 17 • Move more people on Metrorail
- 18 • Provide more telecommuting and other options for commuting
- 19 • Expand express highway network
- 20 • Improve walk and bike access to transit
- 21 • Complete the National Capital Trail

22 The TIP is a document describing the planned schedule in the next six years for distributing
23 federal, state and local funds for state and local transportation projects in accordance with
24 *Visualize 2045*. The TIP represents an agency's intent to construct or implement specific projects
25 and identifies the anticipated flow of federal funds and matching state or local contributions.

26 TPB is dedicated to achieving these measurable objectives through supporting individual
27 organization TDM strategies, including pricing strategies, subsidies, incentives/disincentives, and
28 better transit options. This TMP will help FDA direct their TDM strategies at the MRC West Campus
29 to remain consistent with TPB's Vision and achieve its goal.

30 1.1.2 State

31 The Maryland Department of Transportation (MDOT) continually takes steps to plan, invest in and
32 evaluate the transportation system to ensure it connects customers to key destinations—enabling
33 a growing economy. MDOT's strategic approach is presented through the *State Report on*
34 *Transportation (SRT)* which is comprised of three documents: (1) a vision for the transportation
35 system through the *Maryland Transportation Plan (MTP)*; (2) the six-year budget for transportation
36 projects, produced annually as the *Consolidated Transportation Program (CTP)*; and (3) an
37 evaluation and report of the performance of Maryland's transportation system through the

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1 *Annual Attainment Report on Transportation System Performance (AR)*, focusing on the goals
2 adopted in the MTP.

3 The Office of Planning and Capital Programming at MDOT has developed the 2040 MTP. The
4 MTP outlines the State's overarching transportation priorities and helps create a larger context
5 for transportation decision-making through these goals:

- 6 • Ensure a safe, secure, and resilient transportation system
- 7 • Facilitate economic opportunity and reduce congestion in Maryland through strategic
8 system expansion
- 9 • Maintain a high standard and modernize Maryland's multimodal transportation system
- 10 • Improve the quality and efficiency of the transportation system to enhance the customer
11 experience
- 12 • Ensure environmental protection and sensitivity
- 13 • Promote fiscal responsibility
- 14 • Provide better transportation choices and connections

15 The MTP contains statewide transportation strategies to meet the seven goals, including Better
16 Transportation Choices and Connections. The objective of Better Transportation Choices and
17 Connections is to enhance mobility and accessibility along with informing and educating
18 customers on transportation options. Some strategies noted in the 2040 MTP towards these
19 objectives are:

- 20 • Coordinate activities across MDOT and with regional and local agencies to incentivize
21 changing travel behavior.
- 22 • Encourage local jurisdictions to identify desired bicycle and pedestrian facilities in
23 comprehensive plans, and then to secure those facilities through private development
24 and other opportunities.
- 25 • Expand commuter transportation options, including commuter bus, car/vanpooling,
26 park-and-ride facilities, cycling, walking, and transit, as well as promoting opportunities
27 for teleworking.
- 28 • Promote innovative public involvement strategies for projects such as use of social media
29 and text message surveys to expand outreach and engagement.
- 30 • Strengthen employer commute incentive programs by increasing marketing and
31 financial/and or tax-based incentives for employers, schools, and universities to
32 encourage walking, biking, public transportation usage, carpooling, and teleworking.

33 In coordination with the MTP, the *Bicycle and Pedestrian Master Plan (BPMP)* establishes a 10-
34 year vision for bicycling and walking as transportation in Maryland. The BPMP provides guidance
35 and investment strategies to support bicycling and walking through education, enforcement,
36 and infrastructure solutions.

37 Maryland Department of Transportation State Highway Administration (SHA), and Maryland
38 Transit Administration (MTA) track performance of these strategies and goals through

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1 transportation demand management (TDM) and Transportation Emission Reduction Measures
2 (TERMs), including: Commuter Choice Maryland, Commuter Connections, Telework Partnership,
3 transit marketing and subsidy programs, and statewide park-and-ride facilities. MDOT also tracks
4 performance through transportation-related emissions by region and greenhouse gas emissions.

5 **1.1.3 Local**

6 Prince George's County Planning Department, part of the Maryland-National Capital Park and
7 Planning Commission (M-NCPPC) developed the *Plan Prince George's 2035 Approved General*
8 *Plan (Plan 2035)* (published in 2014). The 2035 Transportation and Mobility Goal is to provide and
9 maintain a safe, affordable, accessible, and energy efficient multimodal transportation network
10 that supports the county's desired land use pattern and *Plan 2035* vision. *Plan 2035* recognizes
11 that implementation of the various planning documents will require continued and timely
12 coordination and collaboration of local, state, and regional agencies, and the development
13 community.

14 *Plan 2035* designates eight Regional Transit Centers which are the focus of the county's planned
15 growth and mixed-use development, and which have the capacity to become major
16 economic generators. Six Neighborhood Reinvestment Areas are designated for coordinated
17 funding and resources needed to stabilize and revitalize these areas. The *Plan 2035*
18 transportation policies and strategies build on the *2009 Approved Countywide Master Plan of*
19 *Transportation (MPoT)*. The MPoT identifies appropriate transportation system elements to support
20 the *Plan 2035* development pattern and policies and proposes implementation mechanisms for
21 these elements. To facilitate inter-agency coordination on implementation, strategies that
22 should be pursued within the first five years following *Plan 2035's* approval are:

- 23 • Identify new transitway corridors that will support the *Plan 2035* development priorities
24 and amend the *Master Plan of Transportation* Transit Element to include the updated
25 corridors.
- 26 • Update the *Transit Services Operating Plan (TSOP)* to reflect the *Plan 2035* future land use
27 plan and local and regional transit planning initiatives.
- 28 • Adopt a single set of multimodal LOS standards (superseding the standards for each
29 mode) at a future time when multimodal LOS analysis procedures have been fully
30 accepted.
- 31 • Coordinate the county complete streets policy with a school route analysis, planning,
32 and implementation by the Prince George's County Planning Department, the Board of
33 Education, the Department of Public Works & Transportation, SHA, and municipalities.
- 34 • Identify areas with high pedestrian accident incidents and implement appropriate
35 traffic-calming measures to increase safety while maintaining designated levels of
36 service.
- 37 • Develop a coordinated approach to pursuing a range of diverse transportation funding
38 sources.

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- 1 • Develop a priority parking initiative for alternative fuel and carpooling vehicles at county
2 buildings, commuter parking lots, and other popular areas to encourage the use of
3 alternative fuel vehicles and carpooling countywide.

4 One goal of this document is to guide the County in managing capacity and minimizing
5 congestion of the street, road, and highway network by safely and efficiently providing access
6 for all users to existing and planned land uses, with emphasis on *Plan 2035* corridors and centers.
7 One strategy to achieve this goal is to “implement TDM practices that reduce trips (through
8 park-and-ride lots and other strategies) and trip length, manage routes and peak-period travel,
9 and generally focus on changing travel behavior.” Transit-oriented development (TOD)
10 represents a major opportunity to implement the development vision for Prince George’s County
11 at Metro stations.

12 1.2 DATA COLLECTED

13 The basis for this report is a site assessment, an employee survey conducted in November 2020,
14 and traffic volume data utilized in the traffic impact study.

15 1.3 TMP GOALS AND OBJECTIVES

16 Based on the results of the MRC West Campus employee survey, 97 percent of employees
17 currently drive alone to work, and of those that drive alone, only 17 percent would be willing to
18 consider alternative travel modes if more transit options were available. Furthermore, based on
19 the 2017 FDA off-campus employee survey, approximately 86 percent of employees drive to the
20 various off-campus office locations, with only 32 percent saying that they would be willing to
21 consider an alternative travel mode. This reliance on personal vehicles, in combination with the
22 exurban location of the MRC West Campus, presents a significant challenge to achieving the 50
23 percent SOV goal that is required as part of the parking maximum.

24 However, the Department of Health and Human Services has provided guidance to its agencies
25 (including the FDA) to continue to allow employees to work from home post-COVID and
26 established guidance for the minimum number of days employees should be in the office.
27 Therefore, it is likely that teleworking will continue to be a significant trip reduction measure.
28 While 61% of existing MRC West Campus employees do not telework on a regular basis because
29 they need access to laboratories, equipment, and animals on the campus, it is therefore likely
30 that teleworking policies may not initially have a significant trip reduction effect on MRC West
31 Campus-generated vehicle trips. However, as employees from other office locations are
32 consolidated to the MRC West Campus, the potential for teleworking may be higher.

33 Teleworking will likely be an asset and challenge to transportation demand management at the
34 MRC West Campus. A high teleworking mode share will help to overcome the significant
35 challenge of achieving the 50% mode share goal. However, a high telework mode share will
36 also make other strategies, such as carpool/vanpool and enhanced transit connections, more

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1 challenging, because work schedules will be more varied and the average on-site population
2 could be too low to support higher-cost strategies.

3 Thus, in addition to supporting teleworking, this TMP outlines a strategy to increase the number
4 and quality of options for travel to and from the campus by leveraging the combined resources
5 of other nearby campuses and enhancing connections to the community. Given the significant
6 gap between the SOV target and the actual SOV mode share, the 50 percent target will have
7 to be achieved gradually as the number of employees increases, and other nearby agency
8 projects are completed, to a number that would provide sufficient site population to support
9 higher-cost strategies and ride matching among employees. Based on this need, the following
10 goals were identified:

- 11 • Increase non-SOV mode share to at least 50 percent by 2030, which will accommodate the
12 first phase of growth.
- 13 • Maintain a non-SOV mode share 50 percent by 2040, assuming a full site population of 1,800
14 is achieved within this timeframe.

15

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TRANSPORTATION MANAGEMENT PLAN

Transportation System

1 2.0 TRANSPORTATION SYSTEM

2 2.1 LOCAL ROADWAY NETWORK

3 The MRC West Campus is situated in an exurban area between U.S. 1 and the Baltimore-
4 Washington Parkway. Main access is provided via a gated driveway on Muirkirk Road, with two
5 other gates located on Odell Road. Existing site employees primarily arrive to the site via Muirkirk
6 Road from either the Baltimore-Washington Parkway or Laurel Bowie Road (MD 197) to the east
7 or I-95, U.S. 1, or MD 200 to the west. It is approximately five miles from the Capital Beltway (I-495).

8 Interstate 95 is an eight-lane north-south divided freeway with a posted speed limit of 65 miles
9 per hour, and carries approximately 208,000 average daily vehicles (AADT) according to SHA
10 traffic data. A full-movement, grade-separated interchange is provided at MD 200.

11 Virginia Manor Road/Konterra Drive is a four-lane north-south divided collector road with a
12 posted speed limit of 40 miles per hour and carries approximately 13,600 average daily vehicles
13 (2018 SHA data). Turn lanes are provided at major intersections and traffic signals are provided
14 at the intersections with MD 200 on- and off-ramps as well as Muirkirk Road. Bike lanes are also
15 provided along the roadway.

16 Odell Road is a two-lane undivided local road with no posted speed limit, but it is assumed to be
17 30 miles per hour. Odell Road has a dedicated right-turn lane at the intersection with Muirkirk
18 Road.

19 Old Baltimore Pike is a four-lane minor arterial road with a speed limit of 40 miles per hour and
20 carries approximately 16,000 average daily vehicles (2019 SHA data). A dedicated left-turn lane
21 is provided at the intersection with Muirkirk Road.

22 U.S. 1 (Baltimore Avenue) is a four-lane north-south divided arterial highway with a posted speed
23 limit of 50 miles per hour. U.S. 1 carries approximately 30,500 average daily vehicles (2019 SHA
24 data). Turns lanes are provided at major intersections and traffic signals are provided at the
25 intersections with MD 200 on- and off-ramps as well as Muirkirk Meadows Drive and Ritz Way (MD
26 212). Bike lanes are also provided along select segments of the roadway.

27 Baltimore-Washington Parkway (MD 295) is a four-lane north-south divided freeway with a
28 posted speed limit of 45 miles per hour. The Parkway carries approximately 110,000 average
29 daily vehicles (2019 SHA data). A full-movement, grade-separated interchange is provided at
30 Laurel Bowie Road (MD 197).

31 MD 200 is a four-lane east-west divided freeway with a posted speed limit of 55 miles per hour. A
32 partial diamond interchange is provided at Konterra Drive, which provides access to Muirkirk
33 Road. According to 2019 SHA traffic data, the AADT is approximately 11,600 average daily
34 vehicles.

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1 Laurel Bowie Road (MD 197) is a six-lane north-south divided arterial highway with a posted
2 speed limit of 40 mph. Access to the study area is provided via an intersection with Muirkirk
3 Road. According to 2019 SHA traffic data, the AADT is approximately 50,000 average daily
4 vehicles.

5 Muirkirk Road is an east-west undivided minor arterial with a posted speed limit of 40 miles per
6 hour. It is a four-lane roadway from Virginia Manor Road/Konterra Drive to Longwood Drive, and
7 then is primarily a two-lane roadway from Longwood Drive to Laurel Bowie Road. It provides
8 access to area businesses, residential streets, the Campus, and the Muirkirk MARC station. The
9 main access to the Campus is provided via an unsignalized driveway across from Snowden
10 Woods Road. According to 2019 SHA traffic data, the AADT for Muirkirk Road is approximately
11 11,000 average daily vehicles.

12 **2.2 PARKING FACILITIES**

13 Parking is not regulated at the MRC West Campus. Approximately 283 spaces serve the MOD 1
14 and MOD 2 Buildings, which are the primary buildings on-campus that house staff and
15 laboratory space. MODs 1 and 2 and the associated parking areas are accessed through the
16 main gate on Muirkirk Road. A separate 37-space parking lot is provided for the Beltsville
17 Research Facility, which is located on the east side of the campus. The locations of the buildings
18 and parking areas and their approximate capacities are shown in Figure 2.

19 The current parking ratio is approximately 1 space per 0.9 employees (1:0.9), which does not
20 meet the required NCPC parking ratio for suburban areas beyond Metrorail. However, it should
21 be noted that there are no designated visitor parking spaces on the campus. Visitors to the
22 campus can park in any of the main parking lots. Therefore, the actual parking ratio for
23 employees is lower. FDA reports an average of 40 visitors per day, which would result in an
24 effective parking ratio of 1:1.05.

25 It should also be noted that the Animal Research Facility and pasture areas on the south side of
26 the campus have areas that can be used for loading or parking near the buildings. However,
27 these areas are only accessible to the staff that is specifically assigned to these areas. Although
28 many of the buildings have pavement around them that can be used for loading or parking,
29 there are no striped parking spaces. Therefore, these areas are not considered as part of the
30 overall total on-site parking count.

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TRANSPORTATION MANAGEMENT PLAN

Transportation System

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Figure 2: Existing MRC West Campus Parking Lot Locations (NTS)

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The proposed Master Plan calls for a total of 900 employee parking spaces and 80 visitor parking spaces. The number of parking spaces will likely be phased with the development of the site as outlined in the Master Plan.

6

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Transportation System

2.3 TRANSIT FACILITIES

The local transit network is shown in Figure 3, along with approximate distances from the MRC West Campus. Transit within and outside the study area is discussed in the following sections.

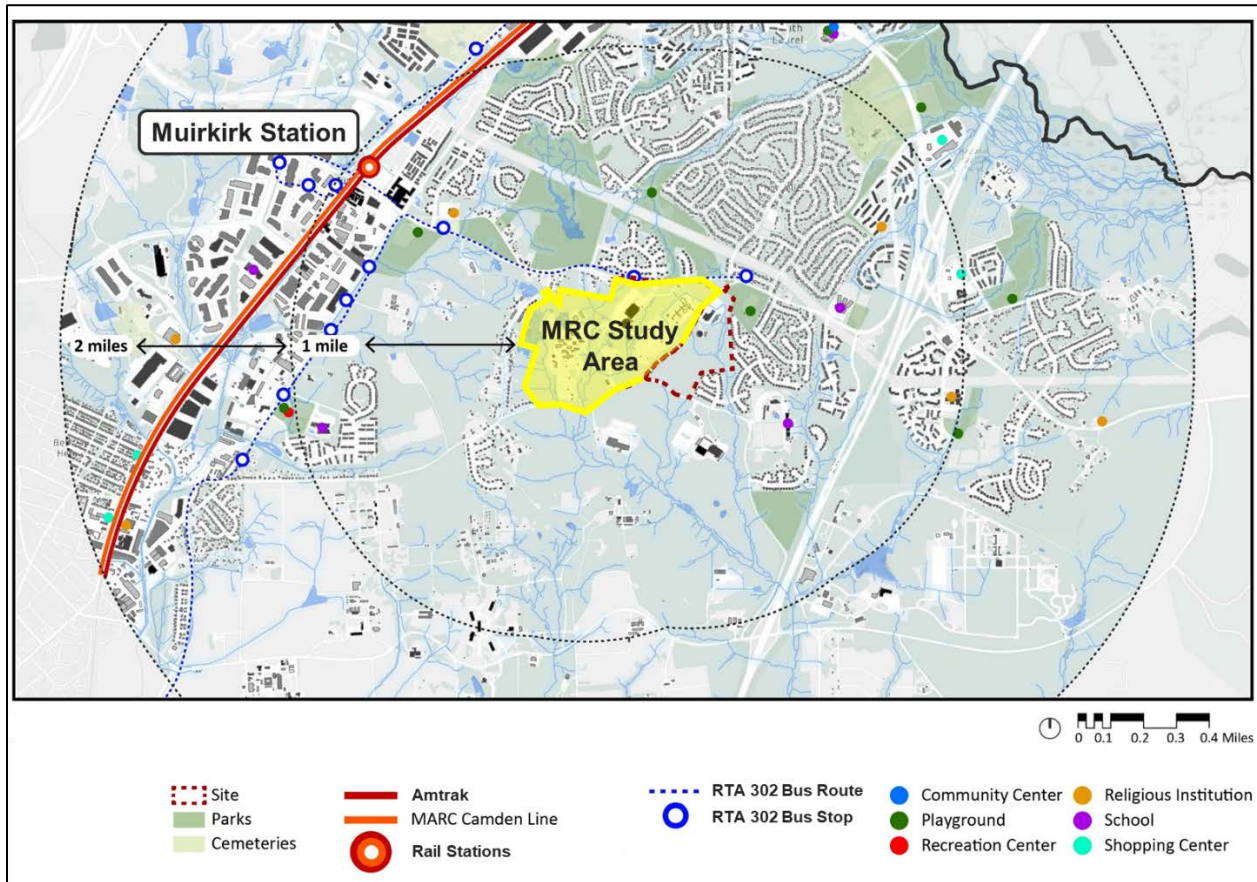


Figure 3: Local Transit Services

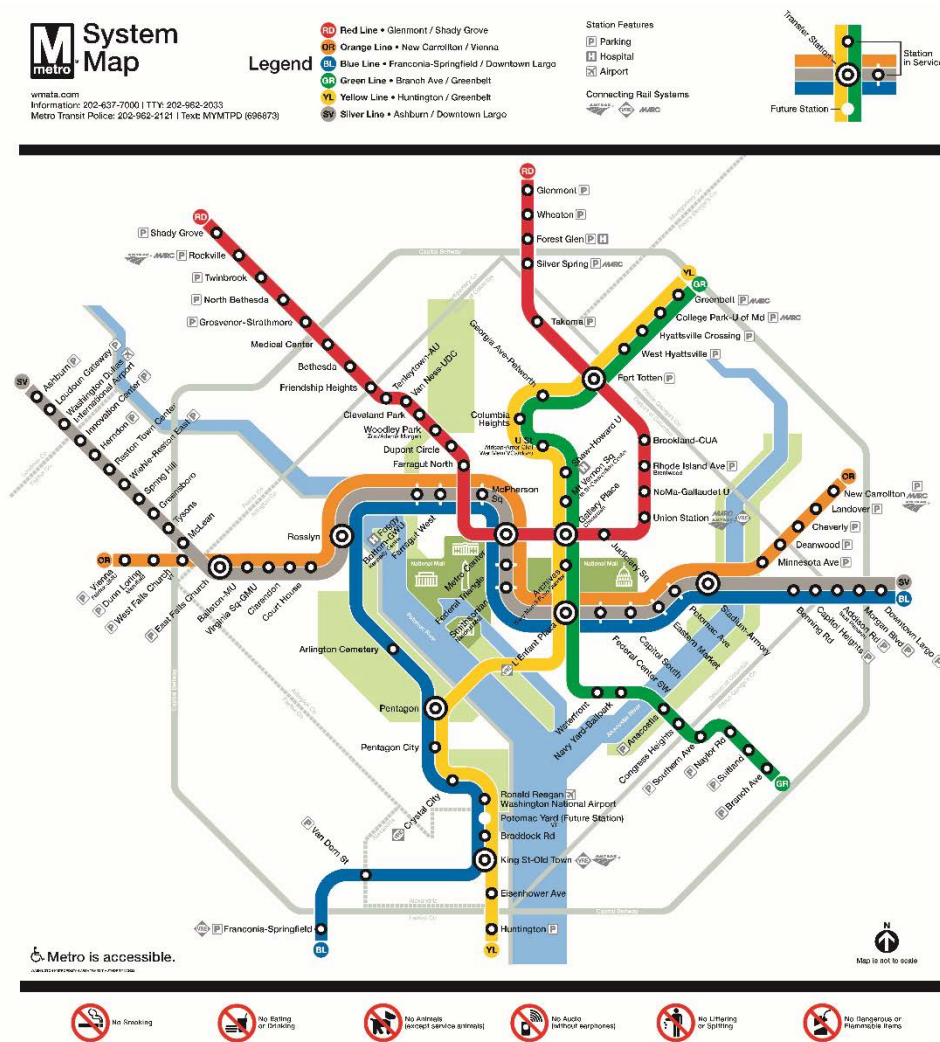
2.3.1 Metrorail

The Washington Metropolitan Area Transit Authority (WMATA) Metrorail system connects downtown Washington, DC to the adjoining areas in Maryland and Virginia. Six lines, including the Red, Blue, Orange, Green, Yellow, and Silver, interconnect within Washington, DC. Prior to the COVID-19 pandemic, the Metrorail system operated from 5:00 AM to 11:30 PM Monday through Thursday, from 5:00 AM to 1:00 AM on Fridays, 7:00AM to 1:00 AM on Saturdays, and 8:00 AM to 11:00 PM on Sundays. Trains arrived approximately every six minutes during the peak hours and every twelve minutes at other times. During the COVID-19 pandemic, the Metrorail system operated from 5:00 AM to 11:00 PM on weekdays, 7:00 AM to 11:00 PM on Saturdays, and 8:00 AM to 11:00 PM on Sundays. Trains arrive approximately every six minutes during the peak hours and every twelve minutes at other times.

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1 The Campus is approximately 6.5 miles from the Greenbelt Metro station on Metrorail's Green
 2 Line. The Green Line operates between Branch Avenue and Greenbelt in Prince George's
 3 County and has 21 stations and three transfer points to other Metrorail lines (Figure 4). The line
 4 runs along the same path as the Yellow Line from L'Enfant Plaza to Fort Totten at all times, and
 5 from L'Enfant Plaza to Greenbelt only during rush hours. The line operates at an 8- to 12-minute
 6 headway during weekdays and Saturdays, a 15-minute headway on Sundays, and 20-minute
 7 late-night headways. The Greenbelt station, the closest station to the MRC West Campus, has
 8 3,875 parking spaces, 81 bike racks, 38 lockers, and numerous bus service connections, including
 9 Regional Transportation Agency of Central Maryland (RTA) Bus 302 to Laurel which stops at the
 10 MRC West Campus driveway on Muirkirk Road. The College Park Metrorail Station, another major
 11 station nearby on the Green Line and which will also be served by the Purple Line in the future, is
 12 approximately nine miles from the MRC West Campus.



Source: WMATA, 2022

Figure 4: Metrorail System Map (Source: WMATA)

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1 2.3.2 MARC

2 The Maryland Area Regional Commuter (MARC) train system connects downtown Washington,
 3 DC and Baltimore, Maryland to adjoining areas in Maryland. Three lines, including the Brunswick,
 4 Camden, and Penn, interconnect within Washington, DC.

5 The Muirkirk station, approximately 1.5 miles from the MRC West Campus, is located along the
 6 Camden Line, shown in orange in Figure 5, below. Camden Line service operates from 6:00 AM
 7 to 9:00 AM and from 3:30 PM to 9:00 PM on weekdays only. There is no weekend and off-peak
 8 service. Trains arrive approximately every 30 minutes. Bus service to the station is provided
 9 through RTA Route 302 which stops at the station every hour on weekdays. The Muirkirk station
 10 has approximately 650 parking spaces.



Source: MTA, 2020

Figure 5: MARC Rail System with Commuter Buses (Source: MDT)

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Transportation System

2.3.3 Bus

WMATA Bus Route 89M services the overall study area with connections to the South Laurel Park-and-Ride Lot and to the Greenbelt Metrorail station. The bus stop is located within the study area on Ritz Way west of Baltimore Avenue, south of Muirkirk Road. Buses arrive approximately every 30 minutes during peak times and approximately every hour during weekday off-peak times. There is no service on weekends. The nearest stop is approximately two miles from the MRC West Campus.

As shown in Figure 6, the MRC West Campus (labeled as FDA Muirkirk Campus) is served by RTA Route 302. Route 302 operates at approximately one-hour headways and provides local service that connects the Towne Centre Laurel to the Greenbelt Metro station.



Source: Transit RTA, 2021

Figure 6: RTA Route 302 Route Map (NTS)

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2.4 PEDESTRIAN AND BICYCLE FACILITIES

The Campus is currently not connected to a pedestrian and bicycle network. There are no sidewalks or bike lanes present along Muirkirk Road and shoulder widths vary. Furthermore, there are limited pedestrian facilities onsite which primarily connect parking to the buildings, but do not provide connections between different areas of the campus. Furthermore, many of the limited facilities that do exist do not have features that are compliant with current ADA standards.

According to the PGAtlas website, M-NCPPC's Geographic Information Systems (GIS) tool for Prince George's County, the County has planned bicycle lanes on Muirkirk Road (Figure 7). The map also shows planned bike lanes along Odell Road and planned shared lanes on Ellington Drive.

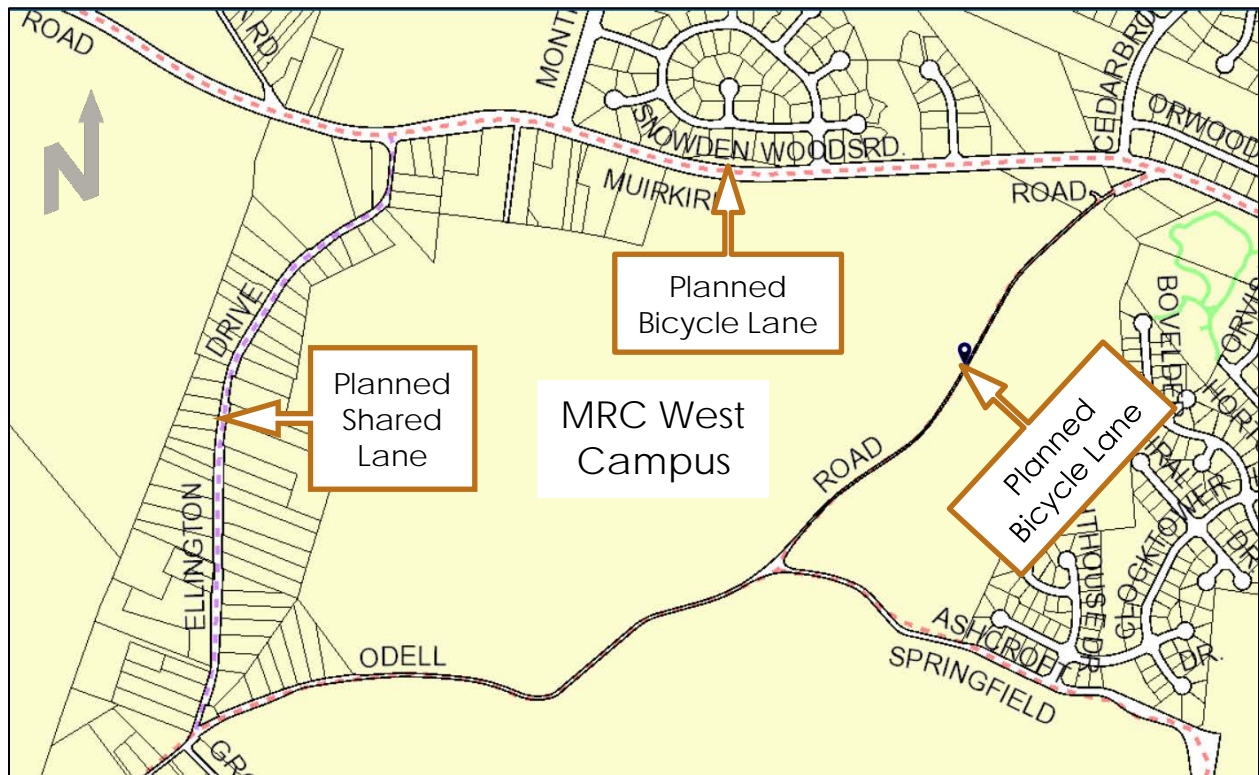


Figure 7: Planned Bicycle Facilities in Study Area (NTS)

2.5 PLANNED REGIONAL TRANSPORTATION INFRASTRUCTURE AND SERVICE IMPROVEMENTS

There are several planned transportation infrastructure and service improvements that are planned for the region that will impact travel in the greater Baltimore-Washington area.

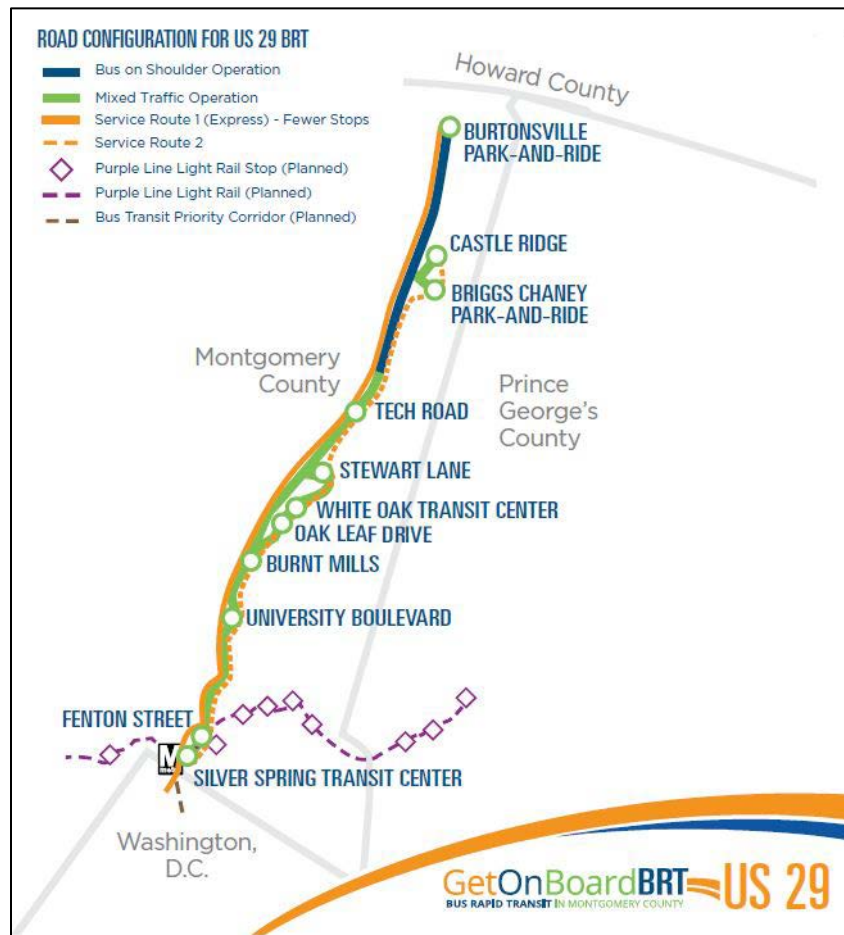
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1 Descriptions of the improvements as well as their potential impact on commuting to/from the
2 MRC West Campus are provided below.

3 2.5.1 Bus Rapid Transit (BRT)

4 BRT service is currently planned for several corridors, including U.S. 29, between the Silver Spring
5 Transit Center and the Burtonsville Park-and-Ride, New Hampshire Avenue, between Colesville
6 Park and Ride and the DC line, and Randolph Road, between the White Flint Metrorail Station
7 and U.S. 29. Although the BRT corridors do not come close to the MRC West Campus, the New
8 Hampshire Avenue and U.S. 29 corridors will provide access to the White Oak Campus.
9 Therefore, it could be possible for employees working at the MRC West Campus to commute to
10 the White Oak Campus and then connect to the MRC West Campus via a shuttle. However,
11 given the fact that this will significantly increase travel time for most riders and result in a seat
12 change, it is not anticipated that the proposed BRT service will have a measurable impact on
13 commuting to and from the MRC West Campus. It should also be noted that only the U.S. 29 BRT
14 corridor is currently planned for implementation (Figure 8).



15 Source: Montgomery County, 2021

16 Figure 8: Planned U.S. 29 BRT Corridor (Source: Montgomery County)

17

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1 The potential impacts to the MRC West Campus are not known and may be hard to speculate
2 at this time. As noted above, it may help to incentivize carpool and vanpooling, and would also
3 reduce travel time of buses that currently utilize those roadways. However, it may also improve
4 driving travel times for those that wish to pay the toll fee. Therefore, it may result in a net neutral
5 impact on MRC West Campus commuting. FDA should work with MTA, WMATA, and other transit
6 providers to determine how transit service could be improved to the MRC West Campus using
7 the HOT lanes, given that most of the staff that could be relocated to the MRC West Campus
8 live along the I-270 corridor.

9 **2.5.4 Baltimore-Washington Superconducting MagLev Project**

10 The proposed Baltimore-Washington Superconducting MagLev project would provide a high-
11 speed connection between Baltimore and Washington that would generally follow the
12 alignment of the Baltimore-Washington Parkway. Only one intermediate station would be
13 provided at BWI Marshall Airport. With no station in the vicinity of the MRC West Campus, it is
14 unlikely that it would be used for regular commuting to and from the MRC West Campus.

15 **2.5.5 Additional Roadway Improvements**

16 There are no other known roadway projects planned for the study area roadway network.
17 However, it should be noted that the *Traffic Impact Study for U.S. Food and Drug Administration*
18 *Muirkirk Road Campus Master Plan (2021)*, prepared by Stantec Consulting Services, Inc.,
19 identified that background developments, including Konterra Town Center East, the Brickyard,
20 and the Bureau of Engraving and Printing would have an impact on traffic within the study area.
21 Section 4.2.5 provides a list of roadway improvements that would likely be required to
22 accommodate the other nearby developments.

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Transportation System

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1 **3.0 EMPLOYEE SURVEY**

2 An employee survey was conducted via the internet from November 16, 2020 to December 4,
3 2020 to evaluate the commuting patterns of existing employees that are assigned to the MRC
4 West Campus to understand pre-COVID commuting patterns, estimate how future employees
5 would commute to/from the campus post-COVID, and identify opportunities to enhance non-
6 auto modes. A copy of the survey is in Appendix A.

7 **3.1 ON-CAMPUS EMPLOYEE SURVEY RESULTS**

8 An email containing a link to the on-line survey was distributed to the 174 full-time FDA
9 employees on the site. Contractor employees were not surveyed. For this population, a sample
10 size of 112 responses would make the results statistically significant; 115 or approximately 66
11 percent, responded. Therefore, it was determined that the survey results would be statistically
12 significant. The survey results for each question are summarized below.

13 **Questions 1 through 3: Employee Demographics**

14 Questions 1 through 3 asked employees about their role at MRC West Campus, the location of
15 their current office, and the zip code of their residence. All but two respondents indicated they
16 are employed by FDA. These two respondents are employed by GSA. Table 2 shows that most
17 respondents work in the MOD 1 or MOD 2 buildings, while only three percent work in the Animal
18 Research Facility or the Beltsville Research Facility. Figure 10 shows the location of the buildings.

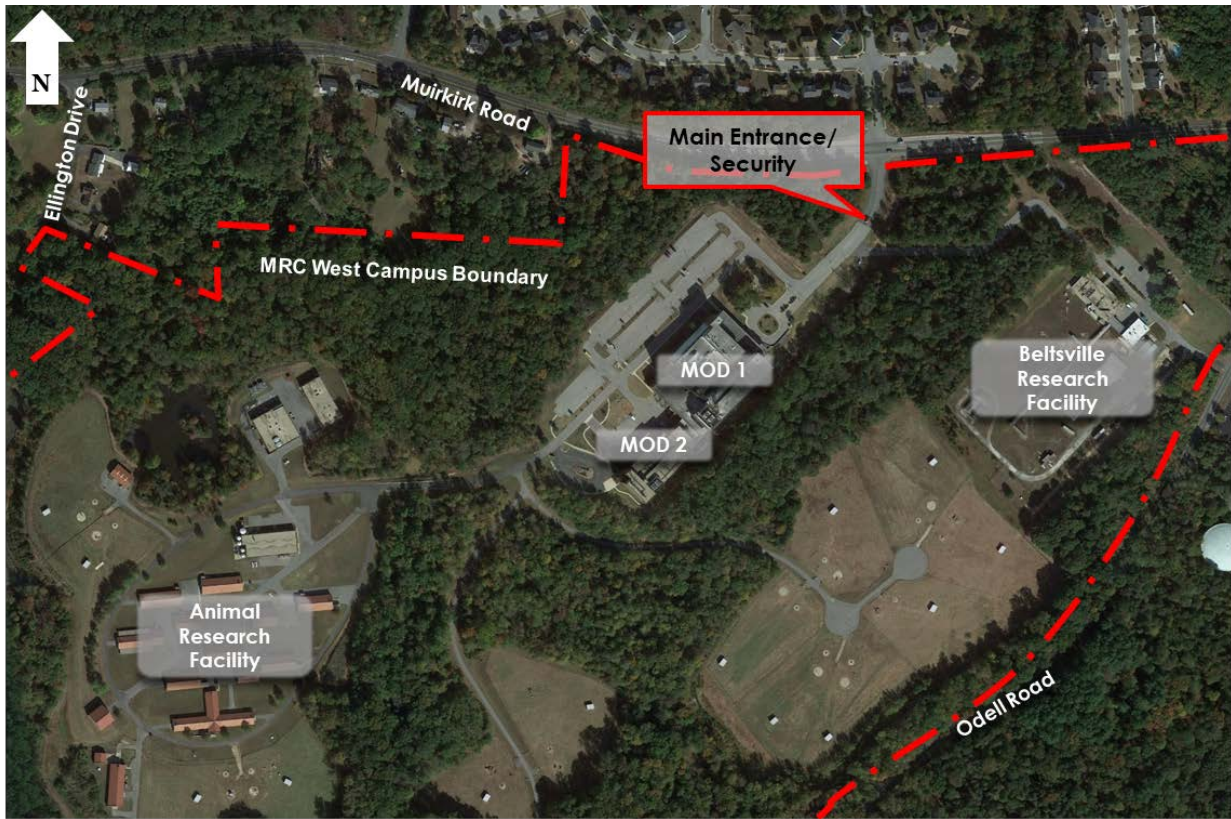
19 Figure 11 illustrates the density of employee residences within a given ZIP code, with a darker
20 color indicating a greater density. The results show high concentrations of employees along the
21 I-270 and I-95/U.S. 29/U.S. 1 corridors, as well as within the South Laurel area.

22 **Table 2: On-Campus Respondent Work Location**

Facility	Percentage
Beltsville Research Facility	3%
MOD 1	56%
MOD 2	37%
Animal Research Facility	3%
Multiple facilities	1%

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Figure 10: MRC West Campus Building Locations

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Employee Survey

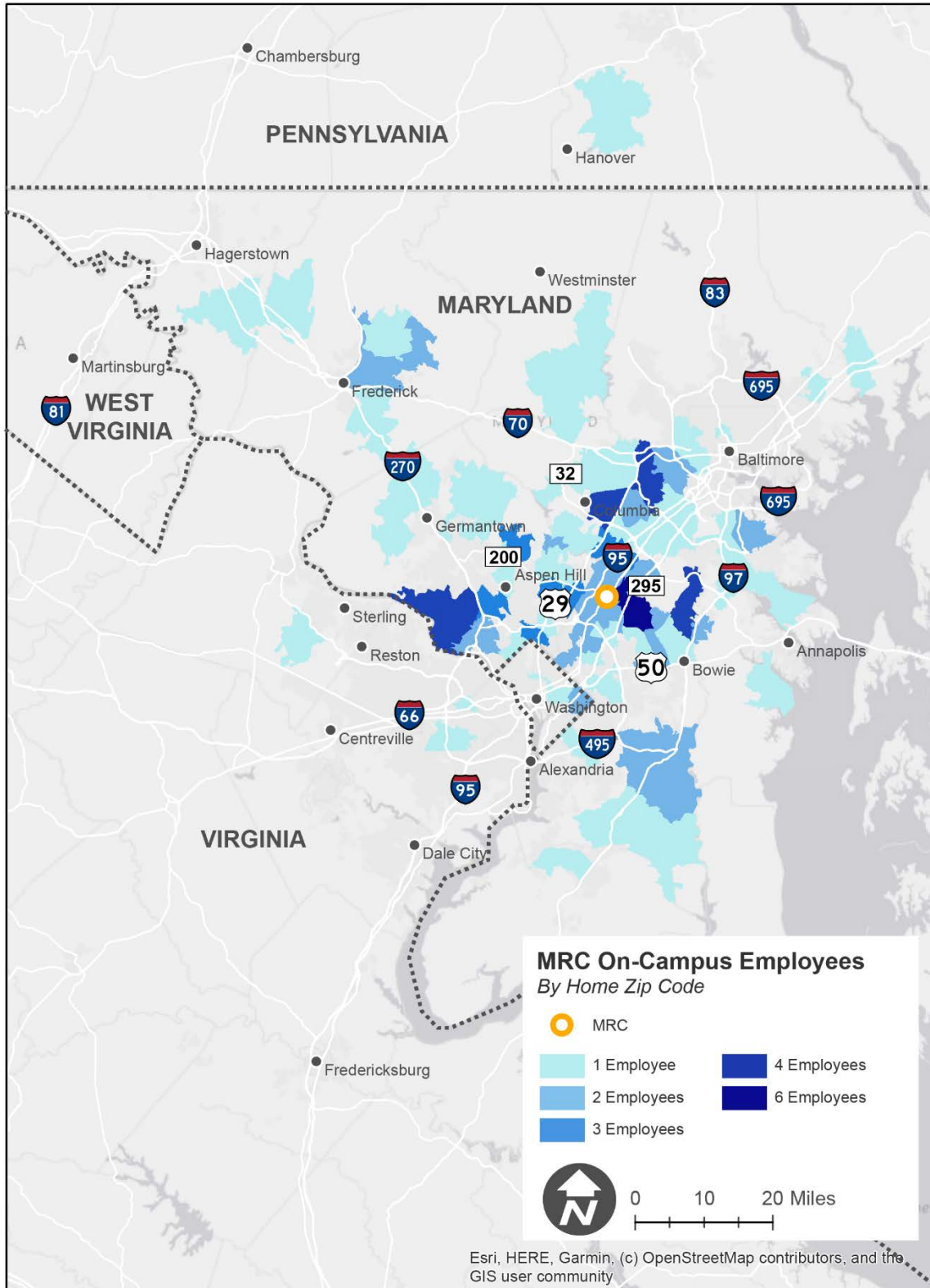


Figure 11: MRC West Campus Employee Respondent Home Location

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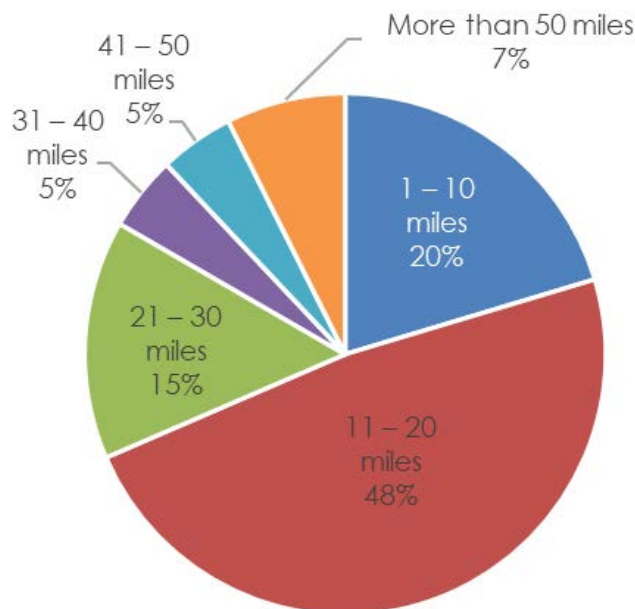
1 Questions 4 through 6: Work Habits

2 Questions 4 through 6 asked employees about their work habits before the COVID-19 pandemic,
3 including work schedule, days of week that they work in the office, and arrival and departure
4 times. Most (about 88 percent) respondents work a typical 5 day/40 hours per week work
5 schedule and most (about 81 percent) of respondents are at the MRC West Campus every
6 workday. There are no set operating hours or shifts at the MRC West Campus. However, a
7 majority, 68 percent, of employees arrive between 7:00 AM and 9:00 AM and 65 percent depart
8 between 4:00 PM and 6:00 PM.

9 Question 7 through 9: Typical Commute Characteristics

10 Questions 7 through 9 asked respondents about their typical commute before the COVID-19
11 pandemic. According to the results of Question 7, approximately 97 percent of respondents
12 commute via personal vehicle. Of the remaining commute modes, only three respondents
13 indicated that they carpool/slug, take a bus, or are dropped off.

14 Question 8 asked respondents approximately how many miles they commute. The results of the
15 survey show that the majority of respondents (approximately 69 percent) travel no more than 20
16 miles to work each day (see Figure 12). Question 9 asked these respondents approximately how
17 long their commute is to work. A little over half (approximately 52 percent) indicated that they
18 have a commute that is 30 minutes or less (see Figure 13).

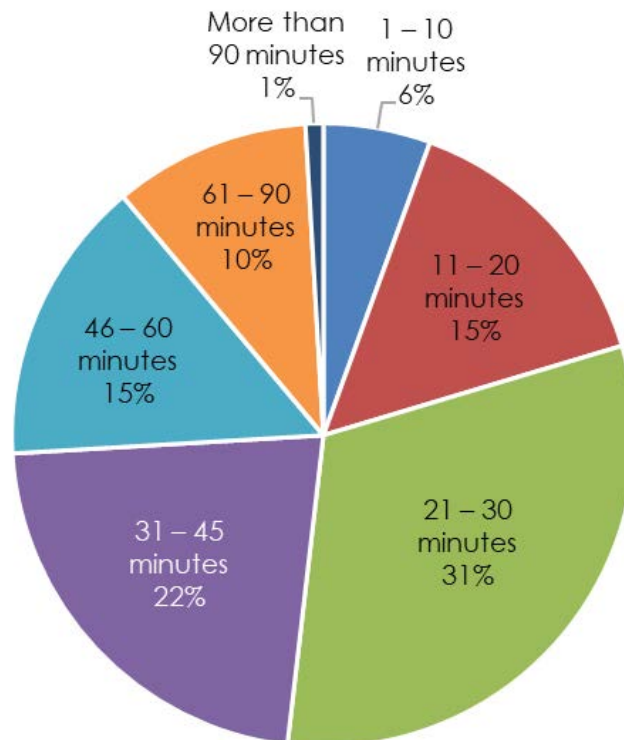


19
20 **Figure 12: Approximate Commute Distance of MRC West Campus Employees**

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TRANSPORTATION MANAGEMENT PLAN

Employee Survey



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2 **Figure 13: Approximate Commute Time of MRC West Campus Employees**

3 **Questions 10 and 11: Number of Respondents in a Carpool or Vanpool**

4 Questions 10 and 11 asked employees who carpooled or vanpooled how many people they
5 shared the vehicle with. There was only one response to these questions. The respondent
6 answered that he or she carpools with four people to work.

7 **Question 12: Parking for Drive Alone or Carpool/Vanpool Commuters**

8 Question 12 asked employees who drive alone or carpool/vanpool to work about parking on
9 campus. Responses that most commuters (78 percent) find that there is adequate parking on
10 campus, and almost 17 percent answered that there was more parking than is needed. The
11 remaining six percent responded that there is not enough parking available.

12 **Questions 13 and 14: Commuter Benefits**

13 Questions 13 and 14 asked employees about commuter benefits, including transit subsidies and
14 guaranteed ride home service. Most (99 percent) of the respondents do not receive a transit
15 subsidy or are not registered with the guaranteed ride home service because they reported
16 driving alone. Only two employees receive a transit subsidy and only one employee is registered
17 with the guaranteed ride home service.

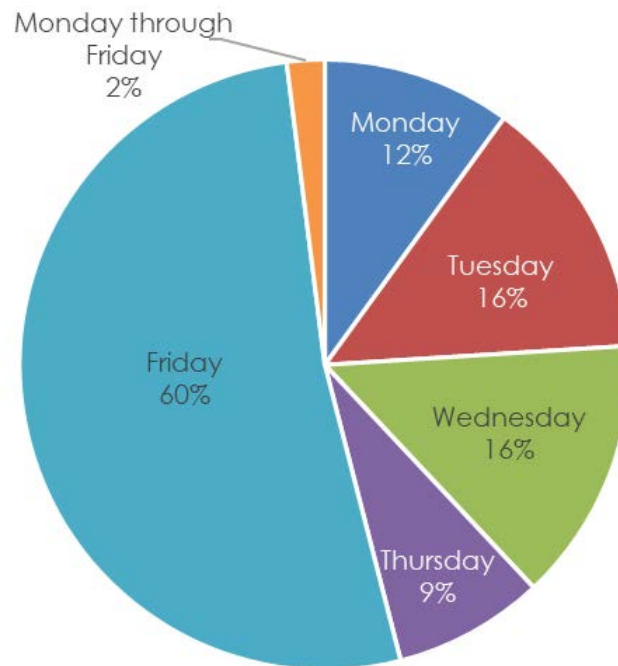
TRANSPORTATION MANAGEMENT PLAN

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1 Questions 15 through 18: Employee Telework Trends

2 Questions 15 through 18 asked employees about their current teleworking activities. Most
3 respondents (61 percent) do not work from home. Approximately 22 percent of respondents
4 telework one or two days per week, mostly on Fridays (see Figure 14). Approximately 43 percent
5 of respondents telework because they enjoy working out of their home or other off-campus
6 location, while 29 percent telework because their commute to the Muirkirk Campus is too long
7 and/or too stressful (Figure 15).

8 For Question 18, employees were asked about the difficulties of telework, specifically the reason
9 they felt that they could not telework (Figure 16). Most (65 percent) respondents indicated that
10 they do not telework because they need to use resources at the office, such as labs or animals.
11 Approximately 18 percent enjoy interacting with coworkers, and almost 11 percent state that
12 working from home is not supported by their supervisor and/or the agency.

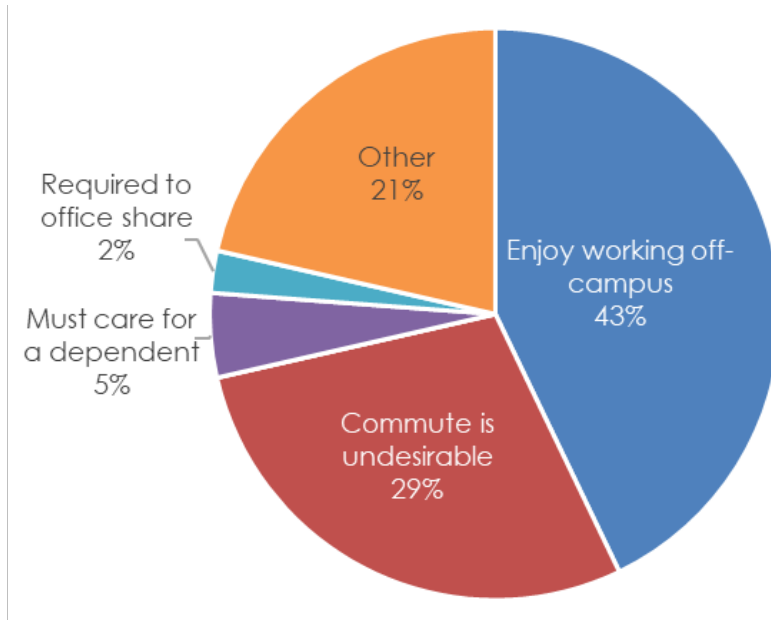


13

14 **Figure 14: Days per Week On-Campus Respondents Typically Telework**

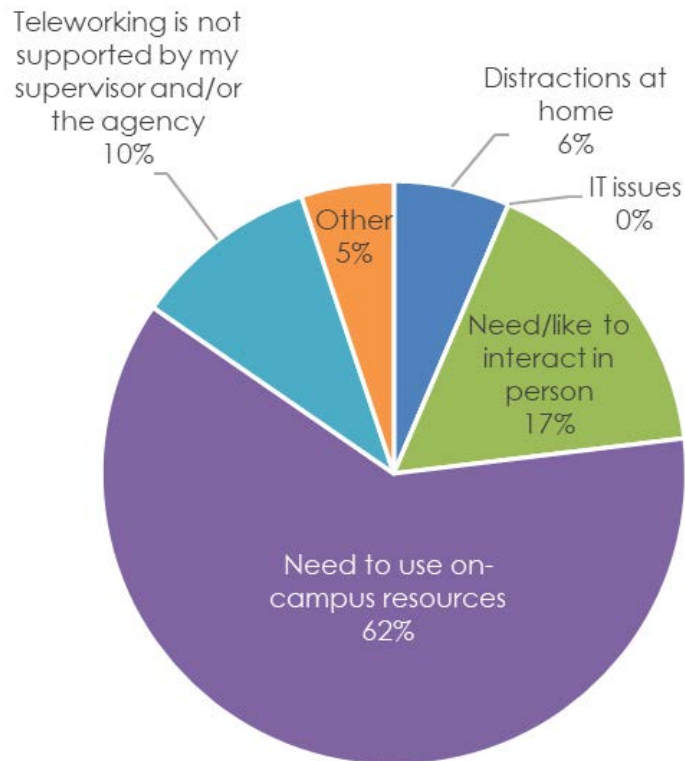
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Figure 15: Respondent Reasons for Teleworking



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Figure 16: Why Respondents Feel that Teleworking is Difficult

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1 **Questions 19 through 21: Walking and Biking to Work**

2 Questions 19 and 20 discussed walking and/or biking to work. Approximately two percent of
3 respondents walk or bike to work. Of the two percent of respondents who walk or bike, half walk
4 or bike rarely or once per week.

5 Question 21 asked employees if there are any on- or off-campus issues they encounter when
6 walking and/or biking to work. This question was an open response to allow respondents to be
7 specific. All respondents stated that they did not encounter any issues on or off campus when
8 walking or biking to work.

9 **Questions 22 through 27: Post-Pandemic Commute Anticipation**

10 Questions 22 through 27 asked respondents to indicate their opinion on how they believe their
11 work schedules and commute will change after the COVID-19 pandemic subsides. Question 22
12 asked respondents if they believe their work schedules will change. Most (58 percent)
13 responded saying that they will return to working on campus but expect to work from home
14 more often. Approximately 29 percent said they will return to work full time on campus when it is
15 safe to do so (Figure 17).

16 Questions 23 through 27 asked respondents about their anticipated commute to work after the
17 COVID-19 pandemic subsides. When asked if they COVID-19 pandemic would change how
18 they commute to work, most (89 percent) respondents said they are not willing to consider an
19 alternative form of travel. This is likely because most employees currently commute by driving
20 alone. When asked what they anticipate their primary commute mode to be after the COVID-19
21 pandemic subsides, most (97 percent) of respondents said they anticipate driving alone.
22 Question 25 asked respondents if they were willing to consider an alternative form of travel. Most
23 (81 percent) said they would not be willing to consider an alternative form of travel. Question 26
24 then asked these respondents why they are unwilling to consider an alternative form of travel
25 (Table 3). A slight majority of 52 percent of respondents said that they prefer the comfort of their
26 own vehicle. Other popular responses were that they have an unpredictable schedule (36
27 percent), they will have some continued concerns after the COVID-19 pandemic (31 percent),
28 transit travel time is too long (26 percent), transit schedules are inconvenient (26 percent), there
29 are no transit stops close to their homes (26 percent), they need a car for childcare (25 percent),
30 and transit services are too far from MRC West Campus (13 percent).

31 Question 27 asked respondents what they believe needs to be improved for them to alter their
32 forms of commute. Most (78 percent) of respondents said that they more mass transit options are
33 needed (

TRANSPORTATION MANAGEMENT PLAN

Employee Survey

1 Table 4). Others said that they would need better public transit, frequent express bus/train
 2 services, and a shuttle connection from MRC West Campus to the Muirkirk MARC station.

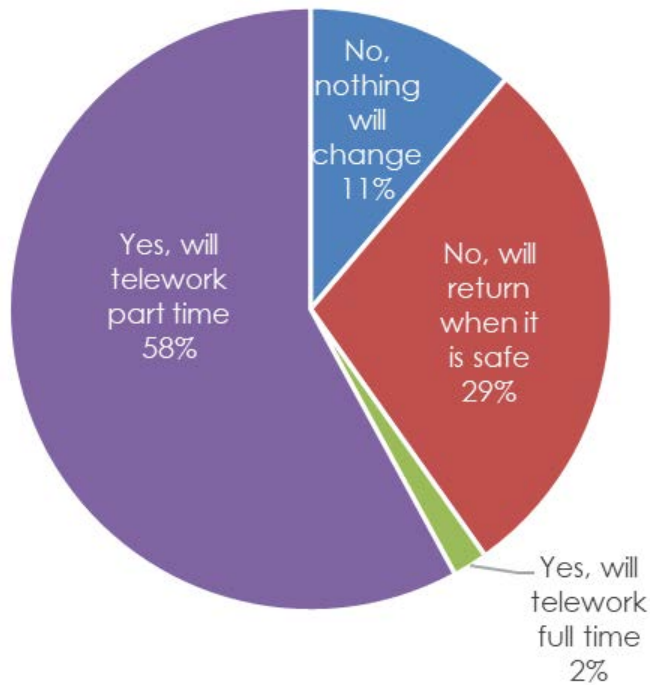


Figure 17: Anticipated Post-COVID Work Habits

Table 3: Why Respondents are Unwilling to Consider Alternative Commute Modes

I like the comfort/convenience of my own vehicle	52%
I have an unpredictable schedule	36%
I will have continued concerns after the COVID-19 pandemic subsides	31%
Transit schedules are inconvenient.	26%
Transit travel time is too long.	26%
There are no transit stops close to my home.	26%
I need car for childcare drop-off/pick-up	25%
I need car during the day for personal use	19%
There are no park-and-ride facilities close to my home	19%
The transit stop is too far from the MRC.	13%
I need car during the day for work	9%
Other	9%
I do not understand how to use the transit system to get to/from the MRC.	8%
The cost is too high	2%

6

1 **Table 4: Types of Improvements that Would Encourage Respondents to Commute via**
 2 **Modes Other Than Driving Alone**

More mass transit options	78%
Better public transit	33%
Frequent express bus/train services	28%
Shuttle connection MRC and the Muirkirk MARC station	28%
Shuttle connection MRC and a park-and-ride facility near your home	28%
Bikeshare or e-scooters	22%
Direct transit connection	22%
Fewer number of seat changes	22%
Decrease in transit travel time and cost	22%
Transit service for irregular shifts	17%
Improved bus stop accommodations at the campus entrance	17%
Assistance with forming a carpool or vanpool	11%
Other	6%

3

4 **Question 28: Additional Questions and/or Comments**

5 Question 28 was used as an open-ended response section if the respondents had any other
 6 additional comments they would like to make. Many of the comments mentioned adding
 7 electric vehicle charging stations to the MRC West Campus parking lots. Other comments
 8 mentioned the unsafe walking conditions, poor transit schedules, not enough parking, and more
 9 flexible working times for employees to avoid driving in traffic.

10 **3.2 OFF-CAMPUS EMPLOYEES**

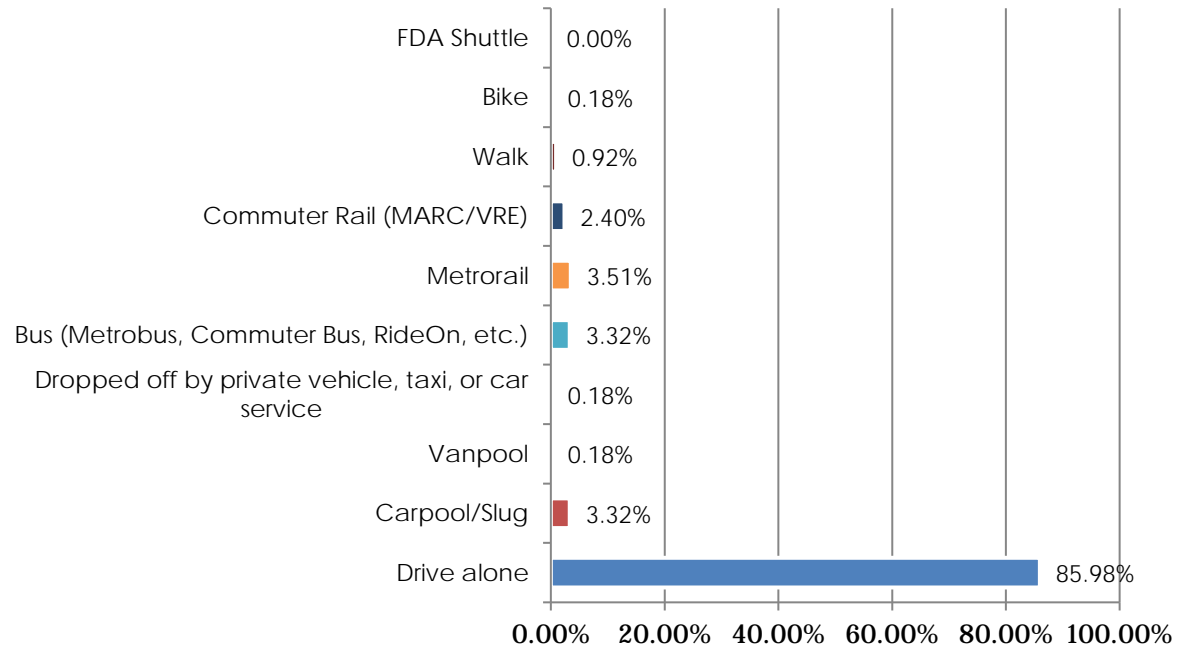
11 The employee group that would be consolidated on the MRC West Campus site is not known at
 12 this time. Therefore, it was not possible to conduct a survey of these employees. However, it is
 13 assumed that most of the consolidated employees would come from other leased office
 14 locations within the Washington, DC metropolitan area. A survey of employees at these leased
 15 office locations was conducted in June 2017 as part of the development of the TMP for the FDA
 16 White Oak Campus. Mode share and employee residence location data was utilized from this
 17 survey for the development of this TMP.

18 The results of the off-campus employee survey conducted in June 2017 indicate that
 19 approximately 86 percent drive alone to work, while approximately 9 percent commute by
 20 various forms of transit, and 3.5 percent carpool or vanpool (Figure 18). Furthermore, of the 86
 21 percent that currently drive alone, approximately 68 percent said they would not be willing to
 22 consider another travel mode to commute to and from work.

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- 1 Figure 19 also shows the home zip codes of the off-campus employee residences. As can be
- 2 seen, there are very high concentrations of employees along the I-270 and MD 27 corridors. This
- 3 is likely because most of the off-campus leased office locations are along the I-270 corridor.



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Figure 18: Primary Commute Mode of Off-Campus Employees

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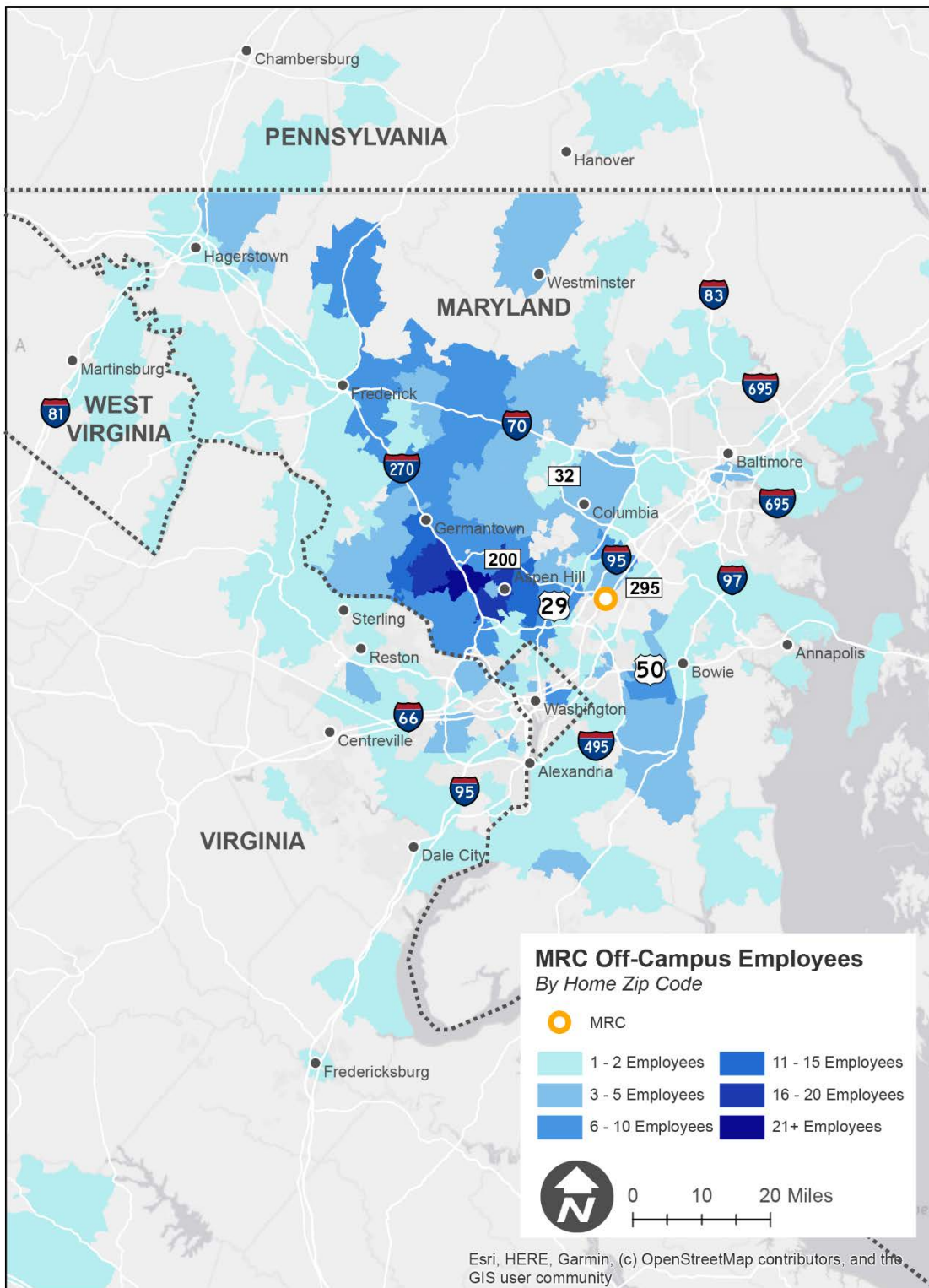


Figure 19: Off-Campus Employee Respondent Home Location

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1 **3.3 SURVEY CONCLUSIONS**

2 The results of the employee commuter survey indicate a reliance on driving alone as a
3 commuting mode for most employees. Approximately 97 percent of respondents who work on-
4 campus currently drive alone to work. This is indicative of the lack of a high-frequency and high-
5 capacity transit service to and from the MRC West Campus. Furthermore, very few employees
6 that currently drive to the campus alone would be willing to consider alternative commute
7 modes even if improvements to transit, walking, and biking are made.

8 The survey of off-campus employees reveals a slightly higher alternative commute mode share,
9 with approximately 86 percent of off-campus employees driving alone to work. The slightly
10 higher non-SOV mode share is likely due to the location of some of the leased offices being
11 located along Metrorail lines, particularly along the Red Line. However, similar to the MRC West
12 Campus survey results, few employees would be willing to consider another travel mode.
13 Employees that would be willing to consider an alternative commute mode would only be
14 willing to do so if significant investments are made in enhancing direct transit service between
15 their residence and place of work.

16 Based on the assessment of the results of the survey, it is clear that a variety of strategies will
17 need to be implemented in order to achieve the relatively aggressive trip reduction goals that
18 are inherent to the NCPC parking maximum guidelines. The most significant challenge to
19 achieving the goals of this TMP will be the location of employee residences relative to the transit
20 network, and the lack of transit connections to the MRC West Campus. For example, most off-
21 campus employees live along the I-270 corridor. Utilizing transit, such as bus or Metrorail from I-
22 270 to the MRC West Campus, would be extremely difficult today and would likely continue to
23 be even if shuttle connections are made to the Greenbelt Metrorail Station or the Muirkirk MARC
24 station. Thus, it will be important to provide a variety of incentives and services that are
25 competitive to driving alone, particularly for the employees that could utilize regional roadways,
26 such as MD 200 to access the site.

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1 **4.0 TRAFFIC IMPACT ANALYSIS**

2 The *Traffic Impact Study (TIS) for U.S. Food and Drug Administration Muirkirk Road Campus Master*
3 *Plan (2021)* was prepared by Stantec Consulting Services, Inc. to assess and report potential
4 transportation impacts resulting from the proposed increase in employee population up to a
5 total of 1,800 employees by 2040. The No Action Alternative evaluates the future transportation
6 network with future volumes, excluding FDA-generated volumes. It includes traffic growth due to
7 nearby developments, increases in background traffic, and any future development and
8 infrastructure enhancements recommended by other transportation agencies. The Action
9 Alternative examines future anticipated volumes on the study area roadway network, taking
10 into consideration traffic volumes and infrastructure improvements under the No Action
11 Alternative, as well as traffic that would be generated by the relocation.

12 It should be noted that four Master Plan action alternatives are being evaluated as part of the
13 Environmental Impact Statement (EIS). However, this TMP addresses Master Plan action
14 alternative B only because it is the preferred alternative. Therefore, this section only addresses
15 the traffic analysis associated with Master Plan action alternative B.

16 Proposed development on the MRC West Campus is anticipated to happen in three phases.
17 The first phase would consist of the relocation of existing employees from an aging building on
18 the site into MOD 2 and a new building and is anticipated to be completed within the next three
19 to five years. Phase 2 consists of the addition of 168 employees to the MRC West Campus,
20 bringing the entire site population to 468 employees, and is anticipated to be complete by 2030.
21 The full anticipated site population of 1,800 is anticipated to occur within a 20-to-30-year time
22 frame with 2040 selected as a benchmark for this analysis (Phase 3). Since Phase 1 consist of
23 internal relocations of employees and would not generate additional trips to the study area
24 roadway network, only Phases 2 (2030) and 3 (2040) were analyzed in this TIS. Therefore, the
25 project team also analyzed an Action with Mitigation condition for the 2030 and 2040 future
26 years.

27 **4.1 STUDY AREA**

28 The vehicle study area for the MRC West Campus TIS is located primarily in Laurel which is in
29 Prince George's County, Maryland. The vehicle study area limits are defined as primarily
30 bounded by Muirkirk Road to the north, Powder Mill Road to the south, Laurel Bowie Road (MD
31 197) the east, and Virginia Manor Road (MD 206)/Konterra Drive to the west.

32 Characteristics of the major corridors within the study area were obtained from the Maryland
33 Annual Average Daily Traffic (AADT) SHA Statewide AADT Lines map through the Maryland GIS
34 Data Catalog denoting functional classification, 2018 AADT, 2018 Average Annual Weekday
35 Traffic (AAWDT), 2018 Truck AADT, and number of lanes. This information is summarized in Table 5.

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Traffic Impact Analysis

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Table 5: Study Area Major Corridor Characteristics

Roadway	Functional Class	2018 AADT (1,000 vpd)	2018 AAWDT (1,000 vpd)	2018 Truck AADT (vpd)	Number of Lanes
Muirkirk Road (east of Old Baltimore Pike)	Minor Arterial	10.7	11.5	297	Varies (2-4)
Muirkirk Road (west of Old Baltimore Pike)	Minor Arterial	23.1	24.7	905	Varies (2-4)
Virginia Manor Road	Major Collector	10.4	11.0	N/A	Varies (4-6)
MD 212 (Ritz Way)	Minor Arterial	17.1	18.3	531	6
MD 197	Principal Arterial Other	50.1	53.6	N/A	6
Konterra Drive	Major Collector	13.7	14.5	N/A	4
WB MD 200 On-Ramp	Principal Arterial Other Freeways	2.0	2.1	N/A	2
EB MD 200 Off-Ramp	Principal Arterial Other Freeways	2.8	3.0	N/A	2
Old Baltimore Pike	Minor Arterial	16.0	17.1	1720	2
Powder Mill Road	Minor Arterial	12.0	12.8	N/A	2

2 4.1.1 Data Collection and Hours of Analysis

3 At the time of this writing, the global community was experiencing the effects of the COVID-19
 4 pandemic which were significantly impacting typical traffic conditions. Therefore, a traditional
 5 traffic count data program was not possible. The project team reviewed historic traffic count
 6 data on the Maryland Department of Transportation State Highway Administration (SHA) Internet
 7 Traffic Monitoring System (I-TMS), as well as from other previous traffic studies. However, data was
 8 not available for all study area intersections, and some of the data exceeded ten years old.
 9 Therefore, in coordination with Prince George’s County, a data collection plan was developed.
 10 The plan consisted of collecting turning movement count data at all study intersections, listed in
 11 Table 6 and shown in Figure 20, and then comparing a few of the intersection counts with data
 12 obtained from ITMS. The comparison of volumes was then used to develop factors in which to
 13 increase the 2021 field data to a pre-COVID condition.

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TRANSPORTATION MANAGEMENT PLAN

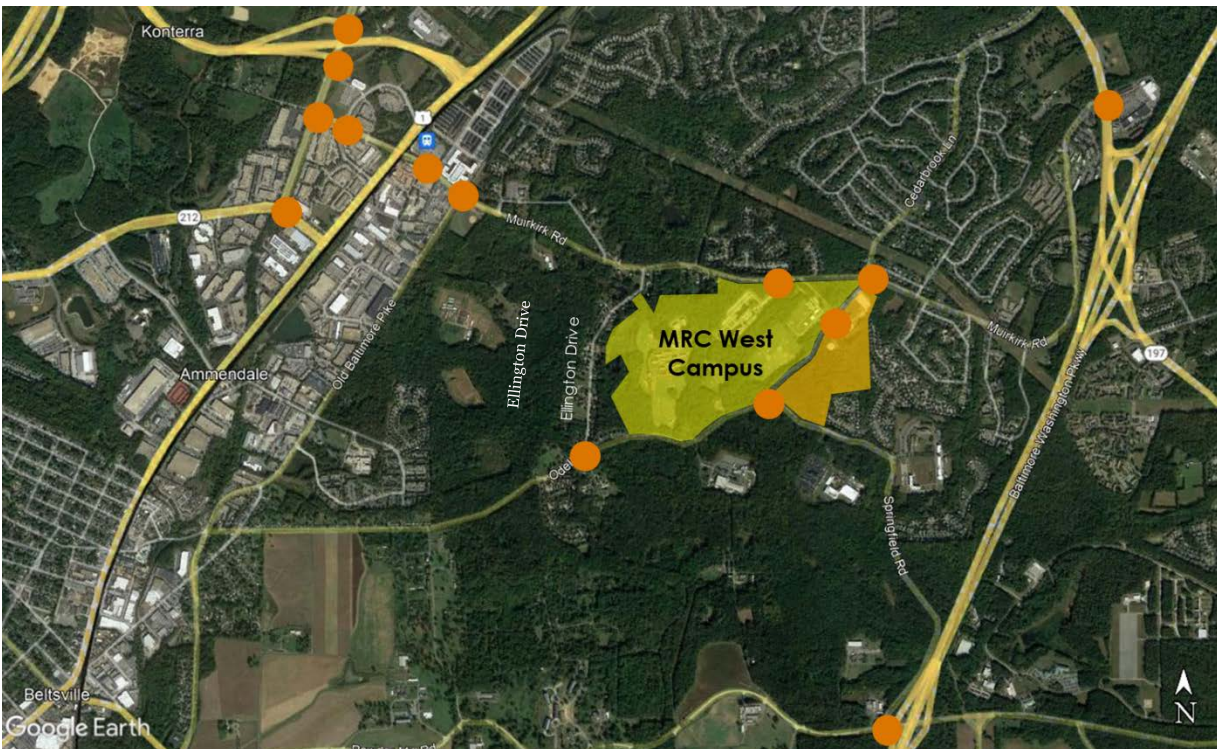
Traffic Impact Analysis

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Table 6: Study Area Intersections

Study Area Intersection	Signalization
Konterra Drive & MD 200 On-Ramp	Signalized
Konterra Drive & Md 200 Off-Ramp	Signalized
Virginia Manor Road/Konterra Drive & Muirkirk Road	Signalized
Virginia Manor Road/Ritz Way (MD 212) & Virginia Manor Road	Unsignalized
Muirkirk Meadows Drive & Muirkirk Road	Unsignalized
Brickyard Boulevard/Driveway & Muirkirk Road	Signalized
Old Baltimore Pike/Cedarhurst Drive & Muirkirk Road	Signalized
Pasture Road/Snowden Woods Road & Muirkirk Road	Unsignalized
Odell Road/Cedarbrook Lane & Muirkirk Road	Signalized
Laurel Bowie Road (MD 197) & Muirkirk Road/Crystal Plaza Driveway	Signalized
Odell Road & Springfield Road	Unsignalized
Odell Road & Ellington Drive	Unsignalized
Powder Mill Road & Springfield Road	Unsignalized

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Figure 20: Study Area Intersections

1 **4.2 ANALYSIS RESULTS**

2 Synchro 10 traffic analysis software was used to perform the capacity analyses for the signalized
3 and unsignalized intersections in the study area. This software package provides average
4 control delay, volume-to capacity ratio (v/c), queues, and level of service (LOS) for each lane
5 group and for the overall intersection.

6 **4.2.1 2021 Existing Conditions**

7 The existing roadway networks within the vicinity of MRC West Campus were assessed to provide
8 a baseline to compare to future conditions. Due to the COVID-19 pandemic, traffic volumes on
9 the roadway network were much lower than what would be anticipated post-pandemic. In
10 order to develop 2021 traffic volumes, field-collected data was compared to data obtained
11 from existing pre-COVID count locations to develop factors in which to adjust the field-collected
12 data to reflect anticipated 2021 volumes without the impacts of the pandemic. The study area
13 intersections were analyzed utilizing Synchro 10/SimTraffic. The results of the capacity analysis
14 show that all but two study area intersections operate at an overall level of service (LOS) D or
15 better. The results also show that six out of the 13 study area intersections operate with one or
16 more lane groups at LOS E or F in at least one peak hour.

17 **4.2.2 2030 No Action Condition**

18 The 2030 No Action Condition evaluates the future transportation network with future volumes,
19 excluding the planned consolidation of additional employees on the MRC West Campus. It
20 includes traffic growth due to nearby developments, increases in background traffic, and future
21 development and infrastructure enhancements recommended in the *Brickyard Traffic Impact*
22 *Study* (2008) and *Konterra Town Center-East Traffic Impact Study* (2008), prepared by The Traffic
23 Group, as well as *Bureau of Engraving and Printing Transportation Impact Study* (2020), prepared
24 by Alliance Consulting Group. Under the No Action Condition, delay and queuing are
25 anticipated to increase at 10 study area intersections. Seven out of the 13 study area
26 intersections would operate with one or more lane groups at LOS E or F in at least one peak
27 hour.

28 **4.2.3 2040 No Action Condition**

29 The 2040 No Action Condition evaluates the future transportation network with future volumes,
30 excluding the planned expansion. It includes traffic growth due to nearby developments,
31 increases in background traffic, and future development and infrastructure enhancements
32 recommended in the *Brickyard Traffic Impact Study* (2008) and *Konterra Town Center-East Traffic*
33 *Impact Study* (2008), prepared by The Traffic Group, as well as *Bureau of Engraving and Printing*
34 *Transportation Impact Study* (2020), prepared by Alliance Consulting Group. Under the No
35 Action Condition, delay and queuing are anticipated to increase at 11 study area intersections.
36 Seven out of the 13 study area intersections would operate with one or more lane groups at LOS
37 E or F in at least one peak hour. Significant increases in delay and queueing would be

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Traffic Impact Analysis

1 anticipated at the unsignalized intersections of Muirkirk Road and Muirkirk Meadows Drive and
2 Virginia Manor Road (MD 212/MD 206) and Ritz Way.

3 4.2.4 2030 Action Condition

4 The 2030 Action Condition analysis examines future anticipated volumes, taking into
5 consideration traffic under the 2030 No Action Condition as well as traffic that would be
6 generated by the proposed increase in employees at the MRC West Campus. The Institute of
7 Transportation Engineers (ITE) Trip Generation Manual, 11th Edition, was utilized to estimate the
8 number of AM peak hour, PM peak hour, and total weekday trips that would be generated by
9 the additional 168 MRC West Campus employees. It should be noted that because of the
10 COVID-19 pandemic, accurate driveway volume counts for existing employees on the site was
11 not possible. Therefore, the 2030 Action alternative includes trips generated for all 468
12 employees (300 existing and the 168 additional employees). A 50 percent non-SOV trip credit
13 was applied to the base trip generation rates in 2030 to estimate the anticipated vehicular trip
14 generation from the proposed growth based on the goals established in this TMP (Table 7).

15

Table 7: Future Auto Trip Generation

	Number of Employees	AM Peak Hour			PM Peak Hour			Total Daily
		In	Out	Tot	In	Out	Tot	
Existing (2021)	300	159	22	181	28	138	166	1,182
Phase 2: 2030 Action Alternative B	468	217	30	247	39	191	230	1,657
With Non-SOV Mode Share Goal (50%)		109	15	124	20	96	115	829
Phase 3: 2040	1,800	674	92	766	106	518	624	4,613
With Non-SOV Mode Share Goal (50%)		337	46	383	53	259	312	2,307

16

17 A trip distribution analysis was conducted to estimate how the new vehicle trips would travel to
18 and from the site. Employee home ZIP code data for off-campus and on-campus, obtained as
19 part of the MRC West Campus commuter survey that was conducted in November 2020,
20 indicated that most employees would likely arrive from points north and west of the MRC West
21 Campus via I-95 and MD 200. The trip distribution also accounts for the proposed new access
22 point on Odell Road.

23 The results of the capacity analysis show that the trips generated would increase movement
24 delay by an additional 10 or more seconds at six of the study area intersections when compared
25 to the 2030 No Action Condition. Seven out of the 14 study area intersections would operate
26 with one or more lane groups at LOS E or F in at least one peak hour.

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Traffic Impact Analysis

1 4.2.5 2040 Action Condition

2 The 2040 Action Condition analysis examines future anticipated volumes, taking into
3 consideration traffic under the 2040 No Action Condition as well as traffic that would be
4 generated by the proposed growth of MRC West Campus employees. The ITE Trip Generation
5 Manual, 11th Edition, was utilized to estimate the number of AM peak hour, PM peak hour, and
6 total weekday trips that would be generated by the additional 1,332 MRC West Campus
7 employees. It should be noted that because of the COVID-19 pandemic, accurate driveway
8 volume counts for existing employees on the site was not possible. Therefore, the 2040 Action
9 Condition includes trips generated for all 1,800 employees. A 50 percent non-SOV trip credit was
10 applied to the base trip generation rates in 2040 to estimate the anticipated vehicular trip
11 generation from the proposed growth based on the goals established in this TMP (Table 7). The
12 50 percent non-SOV trip credit is based on the NCPD parking requirements of one parking
13 space per two employees.

14 The results of the capacity analysis show that the trips generated would increase movement
15 delay by an additional 10 or more seconds at seven of the study area intersections when
16 compared to the 2040 No Action Condition. Seven out of the 14 study area intersections would
17 operate with one or more lane groups at LOS E or F in at least one peak hour.

18 4.2.6 2030/2040 Action Condition with Mitigation

19 An Action Condition with Mitigation was created to help reduce the delay times for both project
20 years. However, it should be noted that the proposed Action Condition only minimally increases
21 delay at most of the critical study area intersections. Most of the intersections for which
22 mitigation has been developed, with the exception of the intersection of Muirkirk Road and the
23 MRC West Campus site driveway (Pasture Road), would experience significant delay and
24 queuing in the No Action conditions. Thus, the mitigation measures are used to demonstrate
25 what types of improvements could improve operations at these intersections. However, the cost
26 and responsibility for the mitigation should not be placed on future projects associated with the
27 MRC Master Plan.

28 The 2030 and 2040 Action Conditions with Mitigation provide mitigation measures at locations
29 that would experience an increase in intersection delay of more than 10 seconds per vehicle
30 and/or degradation of level of service to LOS E or F. The recommended mitigation measures
31 include signal timing and coordination enhancements at all signalized intersections as well as
32 the following physical improvements. The recommended phase for implementation is shown in
33 parentheses.

34 KONTERRA DRIVE AND MD 200 OFF-RAMP

- 35 • Provide a second eastbound right-turn lane from the MD 200 ramp onto southbound
36 Konterra Drive. (Phase 3)

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Traffic Impact Analysis

1 VIRGINIA MANOR ROAD (MD 206)/KONTERRA DRIVE AND MUIRKIRK ROAD

- 2 • Provide a second southbound left-turn lane from Konterra Drive onto eastbound Muirkirk
3 Road. (Phase 2)
- 4 • Provide a second westbound left-turn lane from Muirkirk Road onto southbound Muirkirk
5 Road and eliminate the split phasing for the Muirkirk Road approaches. (Phase 2)
- 6 • Provide a third southbound left-turn lane from Konterra Drive onto eastbound Muirkirk
7 Road and construct a third receiving lane on Muirkirk Road that would become a right-
8 turn only lane at Muirkirk Meadows Drive. (Phase 3)

9 VIRGINIA MANOR ROAD/ RITZ WAY (MD 212) AND VIRGINIA MANOR ROAD (MD 206)

- 10 • Install a traffic signal that is coordinated with the other signals along Virginia Manor
11 Road/Konterra Drive (MD 206). A roundabout could also be considered at this
12 intersection but would require further investigation. (Phase 2)

13 MUIRKIRK MEADOWS DRIVE AND MUIRKIRK ROAD

- 14 • Install a traffic signal that is coordinated with the other nearby traffic signals on Muirkirk
15 Road. (Phase 2)

16 OLD BALTIMORE PIKE/ CEDARHURST DRIVE AND MUIRKIRK ROAD

- 17 • Restripe the eastbound Muirkirk Road approach to consist of one left-turn lane, one
18 through lane, and one right-turn only lane. (Phase 2)
- 19 • Modify the southbound Cedarhurst Drive approach to consist of one shared through-
20 right lane and one shared through-left lane. (Phase 3)

21 PASTURE ROAD/ SNOWDEN WOODS ROAD AND MUIRKIRK ROAD

- 22 • Install a traffic signal at the intersection. A roundabout could also be considered at this
23 location. However, this would warrant further investigation as additional right-of-way
24 (ROW) may be required. (Phase 2)

25 POWDER MILL ROAD AND SPRINGFIELD ROAD

- 26 • Install a traffic signal at this intersection and provide separate right and left-turn lanes on
27 westbound and eastbound Powder Mill Road, respectfully. This is also a recommendation
28 contained in the Bureau of Engraving and Printing Transportation Impact Study (2020),
29 prepared by Alliance Consulting Group. It is assumed that this signal would be
30 implemented as part of the Bureau of Engraving and Printing project. (Phase 2)

TRANSPORTATION MANAGEMENT PLAN

Traffic Impact Analysis

1 **MUIRKIRK ROAD/CRYSTAL PLAZA AND LAUREL BOWIE ROAD (MD 197)**

- 2 • Provide two northbound and southbound left-turn lanes from MD 197 to Muirkirk
3 Road/Crystal Plaza. (Phase 3)
- 4 • Provide a second eastbound left-turn lane from Muirkirk Road to northbound MD 197.
5 (Phase 3)

6 In addition to the above mitigation measures, it is also recommended that FDA engage in a
7 transportation management plan (TMP) that outlines transportation demand management
8 (TDM) strategies to reduce single-occupancy vehicle trips in order to achieve the NCPC parking
9 ratio requirements. A TMP document has been prepared for the MRC West Campus that
10 provides a variety of policy, service, and infrastructure strategies, which are anticipated to
11 reduce single-occupancy vehicle trips to and from the campus, which would help to mitigate
12 the impacts to surrounding transportation network.

13 Additionally, the Konterra Town Center – East development, which was approved in 2009 but
14 has since not been started, was included in this analysis. This development is anticipated to
15 generate a significant number of trips. Therefore, prior to the implementation of any of the
16 mitigation measures west of the US 1 corridor, the status of the Konterra Town Center
17 development should be re-evaluated. It is likely that many of the mitigation measures would not
18 be required if the Konterra Town Center development does not proceed.

19 Furthermore, this study was conducted during the COVID-19 pandemic. COVID-19 has
20 significantly changed commute patterns, and it is anticipated that these changes may have a
21 long-term impact, even after the pandemic is over, that may include an increased number of
22 employees working from home, as well as a reluctance for people to use mass transit or ride in
23 carpool or vanpool vehicles. Therefore, it is recommended that the intersections identified as
24 requiring mitigation be re-evaluated in the future to determine if the mitigation
25 recommendations are still applicable.

26 **4.3 CONCLUSION**

27 The results of this traffic analysis show that an increase of 1,500 employees at the MRC West
28 Campus by 2040 would have a moderate adverse impact on traffic conditions in the study area.
29 An overall increase in delay of 10 seconds or more would occur at seven of the 14 study area
30 intersections. It should be noted that other nearby developments and background traffic growth
31 will have a significant adverse impact on many of the study area intersections. Mitigation
32 measures were considered at all study intersections to address operational deficiencies that are
33 present in the No Action as well as the Action Conditions. As traffic spreads out on the network
34 from the site, the impact of the trips on the network are less notable. Many of the impacts that
35 are experienced on the intersections that are over a mile from the site are largely due to
36 conditions under the No Action Condition. Thus, the full extent of the improvements needed in
37 this area should not be solely attributable to future projects at the MRC West Campus.

TRANSPORTATION MANAGEMENT PLAN

Traffic Impact Analysis

1 Furthermore, it is recommended that the intersections identified as requiring mitigation be re-
2 evaluated in the future at the time of permitting for the new office buildings proposed in the
3 Master Plan to determine if the mitigation recommendations are still applicable once the full
4 impact of COVID-19's effects on travel behavior is understood, as well as to determine if the
5 planned developments, such as Konterra Town Center – East, proceed.

6

TRANSPORTATION MANAGEMENT PLAN

Traffic Impact Analysis

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TRANSPORTATION MANAGEMENT PLAN

Transportation Demand Management (TDM)

1 **5.0 TRANSPORTATION DEMAND MANAGEMENT (TDM)**

2 People choose their mode of travel based on several factors, including convenience, cost, time,
3 habit/familiarity, reliability, punctuality, frequency, cleanliness, and safety. An effective TDM
4 program provides a variety of strategies that affect one or more of these factors. The approach
5 to TDM at the MRC West Campus will have to be tailored to the unique needs of the site. The
6 exurban location of the MRC West Campus, as well as the lack of transit options, will make it a
7 significant challenge to encourage a reduction in the number of employees driving alone.

8 Furthermore, COVID-19 has had a significant impact on travel and will likely continue to have an
9 impact on commuting within the near future. While the survey indicates that most existing MRC
10 West Campus employees anticipate coming back to the campus once the pandemic subsides
11 to access the laboratories and other resources on campus to perform their work, recent policy
12 guidance may allow other employees that are to be consolidated at the MRC West Campus to
13 work remotely more often. However, the duration of the impacts to commuting will continue to
14 be dependent on the perceived risk of the virus, and a personal and organizational re-
15 evaluation of the comfort, convenience, and desirability of telecommuting, as well as transit
16 and carpooling/vanpooling. These impacts will put added challenges on the MRC West
17 Campus. Therefore, this TMP considers ways to heavily incentivize desired behaviors through
18 enhanced facilities on and off the campus, as well as policies that recognize and reward those
19 that are choosing other commute modes for those employees that will be working on-campus
20 on any given day.

21 **5.1 POTENTIAL TDM STRATEGIES FOR MRC WEST CAMPUS**

22 As noted earlier in this report, a variety of strategies will be needed to achieve the SOV
23 reduction goals (25 percent non-SOV by 2030 and 50 percent non-SOV by 2040). As such, the
24 overall approach to TDM on the MRC West Campus will be multi-fold and follow the general
25 principles as outlined in the following graphic:

TRANSPORTATION MANAGEMENT PLAN

Transportation Demand Management (TDM)



1

2 The following sections contain the recommended strategies/practices for the MRC West
3 Campus. An implementation plan for the recommended strategies is discussed in Section 6.0.
4 Furthermore, it should be noted that FDA currently has a TDM program at the White Oak
5 Campus (approximately six miles west of the MRC West Campus) that is managed by a full-time
6 employee transportation coordinator (ETC) and part-time transportation management staff with
7 other transportation related responsibilities. Therefore, it is recommended that the TDM strategies
8 identified in this TMP for the MRC West Campus be initially coordinated with the program on the
9 White Oak Campus.

10 It should be noted that the Department of Health and Human Services has provided guidance
11 to its agencies (including the FDA) to continue to allow employees to work from home post-
12 COVID and established guidance for the minimum number of days employees should be in the
13 office. However, the high proportion of existing employees, as well as those anticipated to be
14 consolidated on the campus in Phase 2 that require laboratory access, may make it difficult to
15 achieve the 50% non-SOV mode share goal by 2030 due to the relatively low on-site population
16 and the need for employees to be on site to work.

17 Furthermore, teleworking will likely be both an asset and challenge to transportation demand
18 management at the MRC West Campus. A high teleworking mode share will help to overcome
19 the significant challenge of achieving the 50% mode share goal. However, a high telework
20 mode share will also make other strategies, such as carpool/vanpool, and enhanced transit
21 connections more challenging, because work schedules will be more varied, and the average
22 on-site population could be too low to support higher-cost strategies.

23 Furthermore, given the relatively low population planned for the MRC West Campus, it may be
24 challenging to justify the need for, or cost of, more intensive TDM strategies such as new transit
25 services and shuttle connections. However, there are several agencies and other campuses

TRANSPORTATION MANAGEMENT PLAN

Transportation Demand Management (TDM)

1 within the area of the MRC West Campus including the Bureau of Printing and Engraving
2 (planned), the USDA, Capitol Technical University, Special Collections Service, among others.
3 When considered collectively, there will be a relatively large employment base in the area of
4 the MRC West Campus that could support higher-intensity transit and shuttle services, as well as
5 expand the potential user base for strategies like carpooling and vanpooling. Although not
6 within the purview of this effort for the MRC West Campus, FDA should consider coordinating
7 TDM strategies, such as shuttle services, carpooling, vanpooling, and advocating for other
8 improvements to transit, pedestrian, and bicycle infrastructure in the study area.

9 **5.1.1 Conduct Outreach and Education and Provide On-Site Amenities**

10 The cornerstone to a successful TDM program is employee outreach and education regarding
11 transportation options that encourages, supports, and de-stigmatizes non-SOV commute modes.
12 Outreach and education start with the employee transportation coordinator (ETC), which
13 manages the program and conducts the outreach, and supplemented with other tools and
14 incentives such as real-time commute information and attractive on-site amenities.

15 **5.1.1.1 Employee Transportation Coordinator (ETC)**

16 An ETC is a “champion” of alternative commute modes. FDA has a robust program for the White
17 Oak Campus with full time ETC and part-time transportation management staff that are
18 responsible for other transportation-related functions. Given the proximity of the White Oak
19 Campus to the MRC West Campus, the ETC on the White Oak campus could initially assume
20 responsibility for managing the TDM program on the MRC West Campus. However, it is
21 recommended that FDA consider assigning at least one ETC that is specific to the MRC West
22 Campus upon full site occupation. ETC responsibilities include, but are not limited to:

23 • **Coordination**

- 24 – Coordinate TDM strategies between the White Oak Campus and the MRC West Campus.
- 25 – Obtain employee home zip codes for all existing MRC West Campus employees and
26 provide ride matching for carpool and vanpools.
- 27 – Obtain home zip codes of employees to be consolidated to the MRC West Campus and
28 develop a transition package highlighting non-SOV transportation options based on
29 employee home geographies.
- 30 – Monitor the performance of the TDM program by conducting annual employee
31 commuter surveys and maintaining statistics on the number of employees utilizing each
32 mode of transportation.
- 33 – Work with a fleet management firm or provide government motor pool vehicles to
34 provide vehicles on-site for employees that commute by modes other than driving alone
35 to use to get to meetings or other errands during the day. Alternatively, or establish an
36 account with a rideshare company, such as Uber or Lyft.
- 37 – Coordinate with other agencies and campuses near the MRC West Campus to
38 coordinate on TDM strategies such as shuttles, carpool, vanpool, and to help advocate
39 for improvements to transit service and pedestrian and bicycle infrastructure.
40 Approximate travel distances between the MRC West Campus main entrance on
41 Muirkirk Road and nearby agencies/ campuses is shown in Table 8, below.

TRANSPORTATION MANAGEMENT PLAN

Transportation Demand Management (TDM)

1

Table 8: Travel Distance to Nearby Agencies and Campuses

Facility	Travel Distance to MRC West Campus Muirkirk Road Entrance
FDA White Oak Campus	8.7 miles
Adelphi Laboratory	6.9 miles
Beltsville Agricultural Research Center	3.7 miles
U.S. Secret Service Rowley Training Center	3.3 miles
Future Bureau of Engraving and Printing	3.2 miles
Capitol Technology University	1.6 miles
Special Collections Service	1.4 miles
Beltsville Information Management Center	1.4 miles
Maryland National Guard	0.5 miles

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- **Communication**

- Educate employees through emails, mailings, and regular transportation fairs/brown bag lunches.

- Develop a designated parking and transportation webpage/clearinghouse for all transportation programs and benefits.

- Maintain transportation information stations within all building lobbies that provides real-time traffic and transit information, as well as route schedules, and information on other commute modes.

- Consider the implementation of a commuter management app such as Ride Amigos or Luum that helps encourage employees to use non-SOV modes, as well as to manage their commutes.

- **Employee Assistance**

- Assist employees in obtaining the maximum federally allowed transit subsidies or registering for Guaranteed Ride Home programs.

- Encourage employee participation in events such as Car Free Day, Park(ing) Day, and Bike-to-Work Day.

- Reach out to on-campus support staff and contractors to encourage them to utilize modes other than driving alone. At a minimum, consider including them in the carpool/vanpool and transit programs.

- **Advocacy**

- Coordinate directly with agencies such as MWCOG, NCPC, WMATA, MTA, RTA, Prince George's County, and SHA, to discuss methods to reduce SOV trips.

- Advocate for improvements to safety and facilities on the surrounding roadway network as well as transit stops/stations and onboard transit vehicles.

27

28 5.1.1.2 Commute Management Platform

29 Commute management platforms, such as Luum and RideAmigos, help employers to engage
30 and empower employees to make better commuting choices. For employers, these platforms
31 help to engage and educate employees, administer benefits, manage parking, integrate

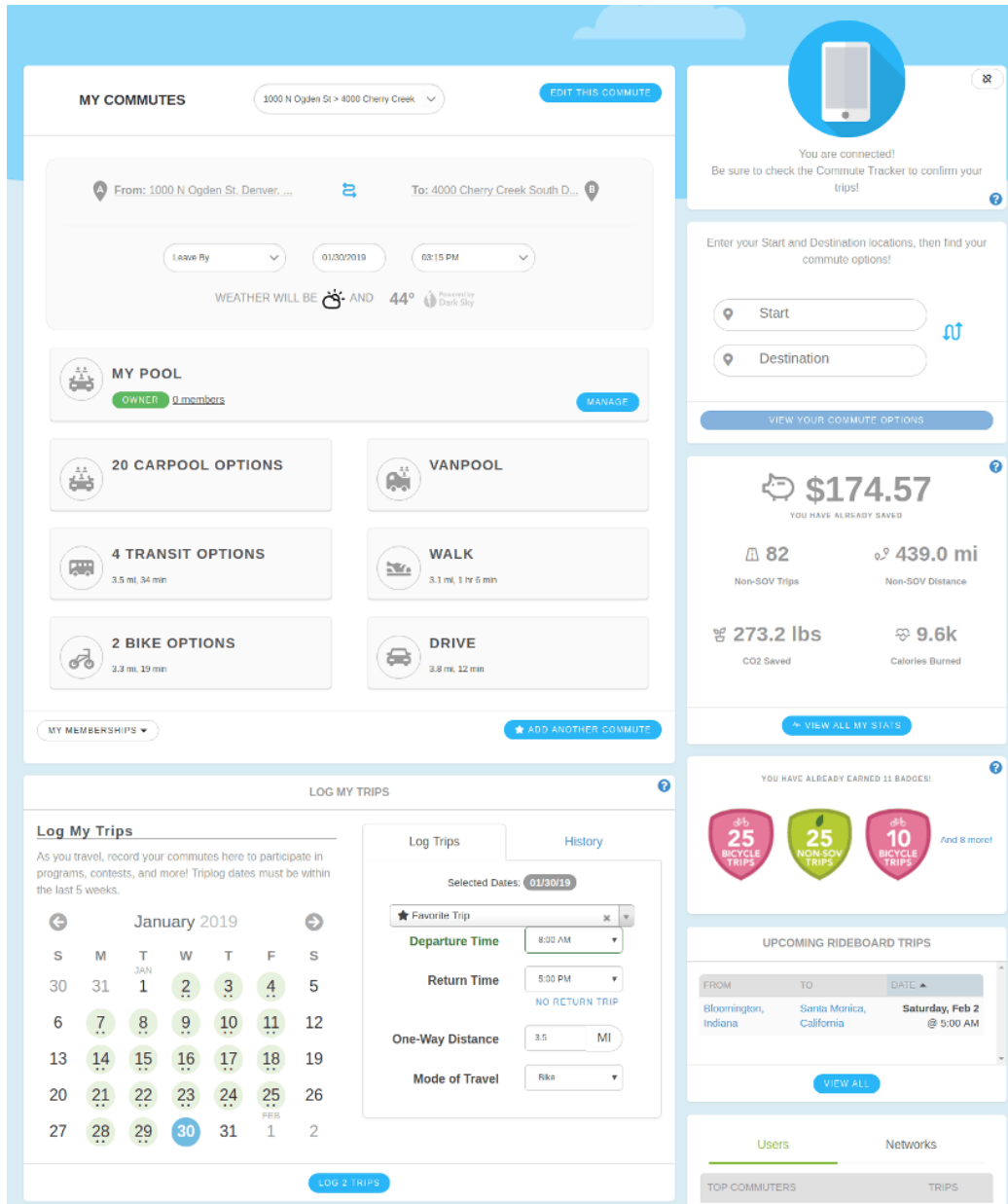
TRANSPORTATION MANAGEMENT PLAN

Transportation Demand Management (TDM)

- 1 mobility options, manage data, and organize events and challenges. For employees, these
2 platforms offer mobile apps that help them plan their commute with real-time transit information,
3 trip planning, rideshare matching, commute logging, etc. RideAmigos, for example, utilizes a
4 commute dashboard where each employee can view their options, plan their commute, find a
5 carpool, measure cost savings, and check their rewards status (Figure 21). Other unique features
6 of these types of platforms are the ability to organize challenges and offer rewards to
7 participants.
- 8 FDA should consider utilizing this type of platform at the MRC West Campus and could also
9 consider utilizing it on other campuses, such as the White Oak Campus. Consideration should
10 also be given to coordinating with other nearby agencies and campuses to link commute
11 management between sites.

TRANSPORTATION MANAGEMENT PLAN

Transportation Demand Management (TDM)



Source: RideAmigos, 2021

Figure 21: RideAmigos Commuter Dashboard

5.1.1.3 On-Site Amenities

A variety of on-site amenities can help to encourage the use of non-SOV travel modes for commuting. The following amenities are recommended and have been included in the Master Plan:

- **On-Site Transportation Hub:** A transportation hub that lies just outside of the secure area of the campus would allow employees to access shuttles, buses, carpool and vanpool

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1 vehicles, and transportation network companies (TNCs) like Uber and Lyft, while avoiding
2 the security challenges that these modes present when trying to access a secure
3 campus. It could also be utilized in the future by autonomous vehicles pick up and drop
4 off. The transportation hub should also include a climate-controlled waiting area with
5 comfortable seating, real-time transit information, and Wi-Fi. Combining the
6 transportation hub with the visitors' center could be advantageous by combining
7 multiple uses into one building and allowing visitors to access the site via non-SOV
8 modes.

- 9 • **Dining, Banking, Sundries, Fitness Center:** Amenities such as on-site dining, banking,
10 sundries, and fitness centers can be used to discourage vehicle trips during the day and
11 encouraging non-SOV commuting. One of the most common reasons for SOV
12 commuting is the need for a vehicle for errands during the day. However, these errands
13 are typically short duration like buying lunch, banking, or working out. It should be noted
14 that the anticipated on-site population may not be enough to support a bank branch at
15 the MRC West Campus. However, a full-service ATM should be provided that would allow
16 employees to do basic banking functions such as depositing and withdrawing money.

17 However, FDA will have to evaluate future on-site population potential given the recent
18 guidance for continued working from home. Smaller average on-site populations may make
19 it difficult to sustain on-site amenities like dining, banking, and sundries.

- 20 • **Fleet Management, Shuttles, or TNC Access:** Although onsite amenities would help to
21 eliminate some of the travel needs employees experience during the day, some
22 employees may need transportation to and from off-site meetings, or to run other
23 errands. The need to attend meetings off-campus can be a deterrent to commute using
24 non-SOV modes, even if the employee does not actually have to meet off-campus on a
25 frequent basis. Government motor pool vehicles could be provided for employees that
26 need to get to meetings during the day. However, they cannot be used for personal
27 errands. Providing alternative travel modes during the day can help employees feel
28 more comfortable about responding to needs at work and attending meetings, even if
29 they happen on short notice. TNC access can be used by employees instead of a
30 government motor pool to attend off-campus meetings or to run personal errands during
31 the day.

32 Therefore, an assessment of this need should be conducted to determine what type of
33 transportation could be provided. For example, if there are a number of employees that
34 regularly need to access the main campus at White Oak, a shuttle service could be
35 provided to connect the MRC West Campus to the White Oak campus. Shuttle
36 connections to other FDA office locations could be considered if demand for travel
37 warrants.

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1 5.1.2 Enhance Transit Services and Connections

2 5.1.2.1 Connect to the Muirkirk Station on the MARC Camden Line

3 The commuter survey results indicate that a significant number of MRC West Campus employees
4 live within approximately five miles of stations along the MARC Camden Line. However, one of
5 the most significant impediments to utilizing MARC to access the campus is the lack of a last-mile
6 connections. While RTA Route 302 serves the Muirkirk Station as well as the campus, it operates
7 on relatively long headways of approximately one hour and the service does not align well with
8 the arrival and departure of trains at the station.

9 At 1.6 miles from the front
10 door of MOD 1 on the
11 MRC West Campus to
12 the Muirkirk Station, it is
13 likely that walking is not a
14 viable last-mile
15 connection. FDA could
16 consider working with
17 Prince George's County
18 to provide a dedicated
19 bicycle facility (multi-use
20 trail or protected bike
21 lanes) along Muirkirk
22 Road (see Section
23 5.1.5.1). However, it is
24 likely that a bicycle

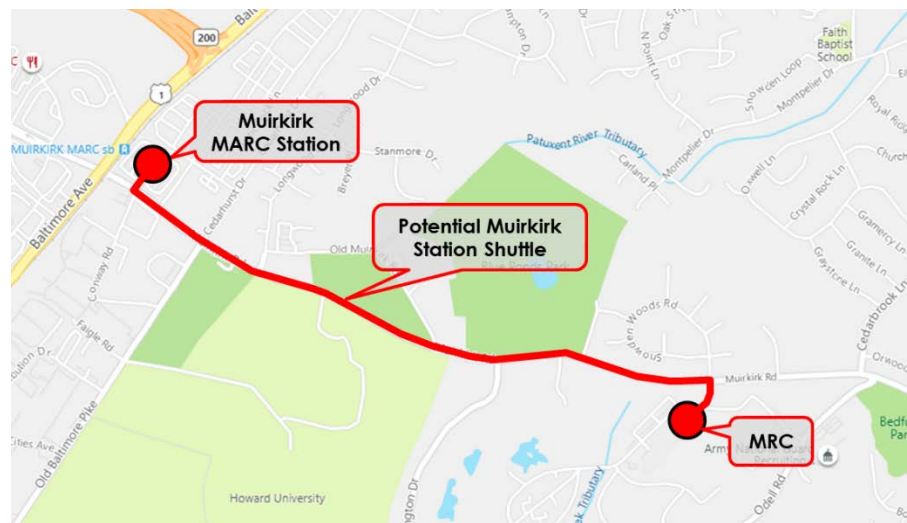


Figure 22: Potential Shuttle Route to Muirkirk Station

25 connection would not be appealing to all employees and would be used only seasonally. In
26 addition, as there are not existing bikeshare facilities in the study area, an on-campus bikeshare
27 would likely be needed to provide bikes for commuters to travel between the station and the
28 MRC West Campus. Therefore, it is recommended that FDA consider operating a shuttle
29 between the Muirkirk Station and the MRC West Campus (Figure 22). The shuttle should be
30 scheduled to align with the AM peak period arrivals and PM peak period departures at the
31 station. The shuttle could operate on an on-demand basis for employees that are arriving to or
32 departing from the station during the middle of the day or after the PM peak period. Given the
33 relatively short distance, an autonomous shuttle could be considered once technology reaches
34 a point where it is deemed feasible to operate an autonomous shuttle within mixed traffic.

35 5.1.2.2 Connect to Nearby Metrorail Stations

36 The closest Metrorail station to the MRC West Campus campus is the Greenbelt station on the
37 Green/Yellow Lines, which is approximately 6.5 miles away. A shuttle to and from this station
38 could be considered; however, given that it is an end line station on a hub and spoke system,
39 this would likely only be a viable connection for employees that currently live within the

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1 Washington, DC core. A review of the distribution of employee residences obtained from the
2 survey reveals relatively low concentrations of employees living within Washington, DC.

3 The College Park station is one stop south of the Greenbelt Station and is approximately nine
4 miles from the MRC West Campus. It will serve as a larger transit hub with the scheduled
5 completion of the Purple Line in 2022. The Purple Line will provide suburb-to-suburb transit,
6 connecting multiple different Metrorail lines and suburban hubs, including College Park,
7 Bethesda, and Silver Spring. Furthermore, a review of employee residence locations identified
8 the I-270 corridor south of I-370 as having a concentration of existing and potential future
9 consolidated employees. Thus, providing service to the College Park station may provide more
10 intermodal connections that could serve employees living in those area. In addition, the College
11 Park Metrorail station is also served by multiple local and regional bus routes, including MTA 204
12 which serves the I-270 corridor.

13 Therefore, FDA could consider a potential shuttle connection to the College Park Metrorail
14 station (Figure 23). Similar to the connection to the Muirkirk MARC station, the shuttle could
15 operate during the AM and PM peak periods with potential on-demand off-peak service.
16 However, unlike the potential Muirkirk Station shuttle, a shuttle service to College Park would take
17 approximately 20 to 25 minutes one way if it was direct to the MRC West Campus. Thus, it would
18 not be possible to schedule the shuttle with the arrival and departure of every Metrorail or Purple
19 Line train. Rather, FDA should develop a fixed schedule in coordination with interested
20 employees to identify fixed times that optimize the arrival of all transit modes at the College Park
21 station.

22 However, as discussed earlier in this report, providing a longer-distance shuttle service is costly
23 and would typically require a higher on-site population to be sustainable. Therefore, it may be
24 advantageous for FDA to coordinate with other nearby agencies and campuses to provide a
25 shuttle connection to the College Park station. For example, the Bureau of Engraving and
26 Printing is anticipating operating a shuttle to the Greenbelt Metrorail station. FDA could work with
27 this agency to estimate potential ridership given post-COVID work from home trends and
28 coordinate on a shuttle route either from the Greenbelt Station or College Park Station.

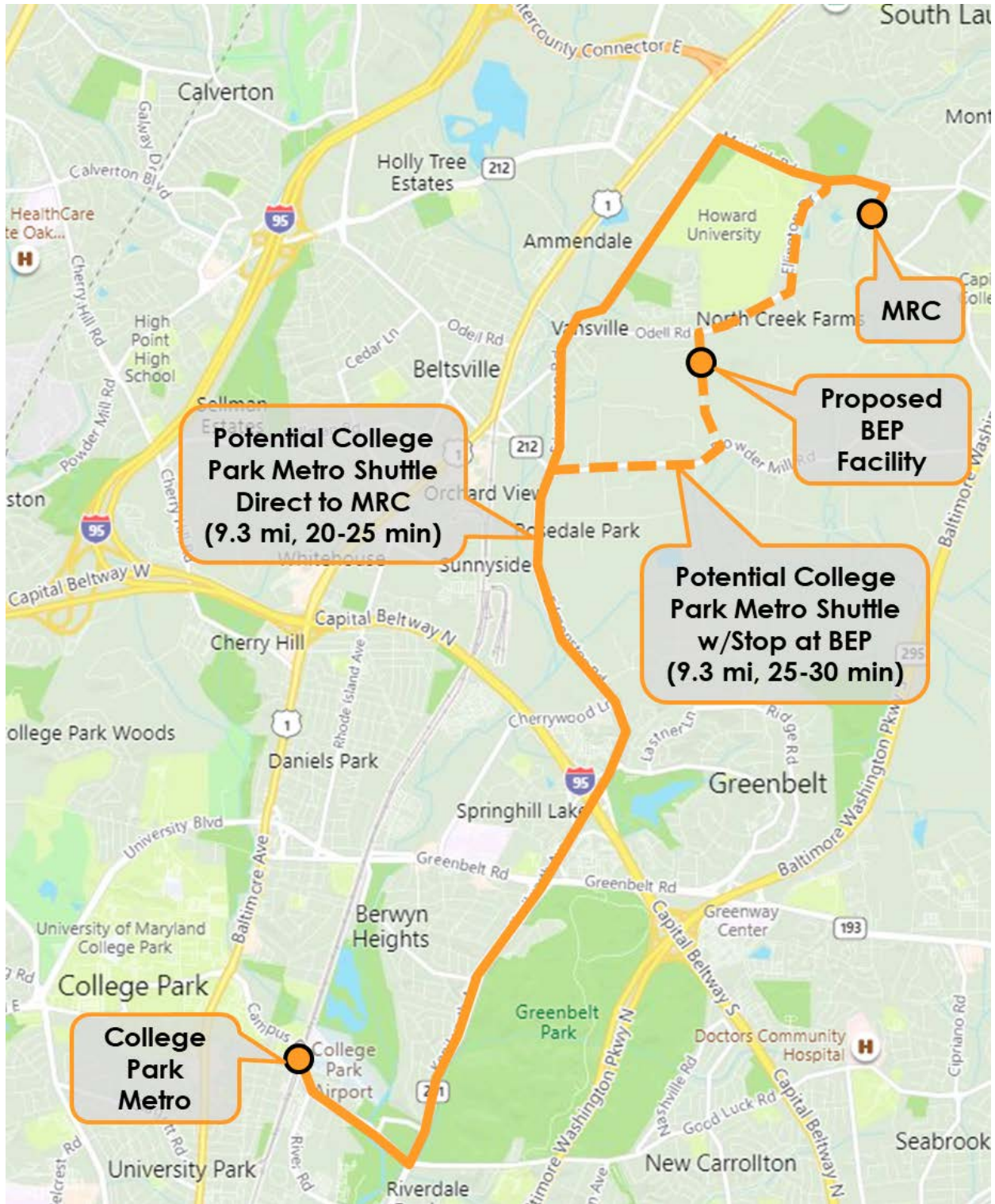
29 Figure 23 shows an option to divert the shuttle route to the proposed BEP site, which would be
30 approximately the same mileage, but with an estimated travel time to the MRC West Campus of
31 25 to 30 minutes due to the added stop time. The attractiveness of a shuttle service is highly
32 dependent on its efficiency because it represents an additional seat change for the commuter.
33 Therefore, FDA and other coordinating agencies would have to evaluate the impact of adding
34 additional stops to the shuttle route to serve various agencies on travel time.

35 It should also be noted that FDA operates a commuter shuttle between the College Park station
36 and the White Oak Campus. However, given the location of the two campuses relative to the
37 station, extending the existing shuttle service to the MRC West Campus is likely not a viable
38 option because it would result in an increase in travel time of 20 to 30 minutes when compared
39 to a direct connection to the station.

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Figure 23: Potential College Park Metrorail Station Shuttle

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1 **5.1.2.3 New/Improved Transit Services and Connections**

2 FDA could also consider coordinating with transit agencies, such as RTA, WMATA, and MTA to
3 provide new or improved transit service to the MRC West Campus. RTA could be encouraged to
4 increase the frequency of service between the campus and the Muirkirk MARC station in lieu of
5 FDA providing its own shuttle connection. MTA could also be encouraged to provide a new
6 commuter bus line from the north on the I-95/US 29 corridor and/or the I-270 corridor. MTA Route
7 204 operates between Frederick and College Park, service the I-270 corridor as well as the White
8 Oak Campus. FDA could consider discussing a potential extension or modification to the route
9 to serve the MRC West Campus.

10 However, as mentioned earlier, it is likely that the relatively low on-site population would make it
11 difficult to justify new service or an extension of the existing service, particularly if significant
12 portions of the MRC West Campus population continue to telework most of the time. It may be
13 more feasible to provide improved commuter transit services if they are coordinated with other
14 nearby agencies and campuses. Thus, FDA should combine resources with nearby agencies
15 and campuses to advocate for improved transit services for commuters. Alternatively, FDA could
16 consider providing a shuttle connection between the MRC West Campus and the White Oak
17 campus so that MRC West Campus employees could access the various transit options currently
18 available at the White Oak campus (see Section 5.1.3.2).

19 **5.1.2.4 Additional Transit Incentives/Programs**

20 Offering additional incentives and programs to encourage and educate employees regarding
21 transit use should also be considered, including:

- 22 • *Transit Incentives:*
 - 23 – Continue to assist employees in obtaining the maximum transit subsidy allowed by the
 - 24 Federal Government.
 - 25 – Provide new staff and visitors with access to real time transit information, including links to
 - 26 smartphone apps.
 - 27 – Assist employees in registering for a guaranteed ride home service.
- 28 • *Change Perceptions and Motivate:*
 - 29 – Conduct annual or semi-annual commute challenges that offer prizes for documented
 - 30 transit use as permissible by federal law.
 - 31 – Conduct transportation fairs on board buses and/or at the Metro station to explain fare
 - 32 payment, transfers, and other aspects of transit to novice users.
 - 33 – Establish a transit ambassador program, where existing experienced riders promote
 - 34 transit use and will ride along with novice riders and help them to navigate the system.
- 35 • *Public Transit User Group:* Establish a public transit users' group that meets regularly to discuss
36 public transit issues, advocates for improved services, and coordinates a transit ambassador
37 program.

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1 5.1.3 Provide Flexible Non-Transit Options

2 One of the most significant challenges to large-scale reductions in SOV mode share for the MRC
3 West Campus is the differential between SOV travel time and transit travel time, as well as
4 options. Even if some additional transit connections are provided as discussed in Section 5.1.1,
5 there will be areas of employee populations for which transit would not be a viable or attractive
6 option. For example, employees living along the I-270 corridor could use MD 200 to access the
7 MRC West Campus. Travel along MD 200 to the MRC West Campus would take approximately
8 25 minutes from the I-270 interchange. Even with the Purple Line and an FDA shuttle connection,
9 it is estimated that total transit travel time would exceed 90 minutes. Therefore, FDA must also
10 consider non-transit TDM strategies for employees that do not have viable or attractive transit
11 options.

12 5.1.3.1 Carpool/Vanpool

13 The employee survey revealed that FDA's on and off-campus employment base is primarily
14 distributed along the I-95/U.S. 1/U.S. 29 corridor as well as along I-270. While a significant portion
15 of existing MRC West Campus employees live along or near the MARC Camden line, most of the
16 employees that may be consolidated on the MRC West Campus live in areas where mass
17 transportation would take significantly longer than driving to work. Therefore, carpooling and
18 vanpooling may be a more viable non-SOV commute mode for these employees.

19 Prior to the COVID-19 pandemic, FDA operated a highly successful carpool and vanpool
20 program on their White Oak Campus. The ETC uses employee zip codes to identify clusters of
21 employees and conduct outreach to provide advanced ride matching and to discuss
22 carpooling/vanpooling benefits. They also assist with ride matching for interested employees
23 and help obtain a vanpool vehicle. However, the population of the White Oak Campus, over
24 10,000 employees and growing, is significantly higher than the anticipated MRC West Campus
25 population. Furthermore, continued teleworking post-pandemic has made the White Oak
26 Campus' program no longer feasible, and this would make it significantly more challenging to
27 coordinate fixed carpools and vanpools at the MRC West Campus because it is likely that
28 people will be onsite less frequently/more variably. Therefore, a modified approach to
29 carpooling and vanpooling should be considered for the MRC West Campus at such time that
30 more employees are returning to campus more regularly. This modified approach would utilize
31 the principles of active ride matching with the formation of a coordinated system of carpool
32 and vanpool vehicles that utilize park-and-rides along major travel corridors such as I-270, MD
33 200, I-495, I-95, U.S. 1, and U.S. 29.

34 Rather than setting specific riders to specific vehicles, these "carpool/vanpool corridors" could
35 be more flexible to meet small changes in an employee's work schedule. For an example, an
36 employee needs to leave work later than normal. That employee could utilize a commute
37 management platform to schedule a ride in a carpool or vanpool vehicle that is departing at a
38 later time. Using park-and-ride facilities along the corridors as the pick-up and drop-off points
39 maximizes the number of carpool and vanpool vehicles that could stop at those locations, thus

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1 making the system more flexible. The ETC could also consider working with ridesharing services
2 such as UberPool and Lyft Line, which allow riders to coordinate with a larger pool of potential
3 commuters, and thus have more options for arrival and departure times.

4 Figure 24 shows examples of existing park and ride locations that could potentially be used for
5 vanpooling and carpooling and organized into carpool/vanpool corridors. As noted earlier in
6 this report, FDA should reach out to other nearby agencies to coordinate carpool and vanpools
7 to increase the options for riders. Once other agencies are added, other opportunities for
8 carpool and vanpool corridors may be identified. In addition to ride matching, other methods to
9 encourage and facilitate carpooling/vanpooling should be considered:

- 10 • *Preferred Parking:*
 - 11 – Locate parking spaces for carpool and vanpool vehicles at locations that provide more
 - 12 convenient access to the building than would be provided for single occupant vehicle
 - 13 spaces.
 - 14 – Guarantee parking spots for carpool and vanpool vehicles through special permits.
 - 15 – Enforce permit use even if not all carpool or vanpool spaces are occupied on a given
 - 16 day.
 - 17 – Consider providing additional preferential parking for vanpools since they have a greater
 - 18 impact on trip reduction.
- 19 • *Employee Follow-Up:*
 - 20 – Follow up with employees to determine if the employees are a good fit and/or if new
 - 21 arrangements should be made. Furthermore, if the ETC takes an interest in the
 - 22 employees finding “good” pool partners, employee matching will most likely be self-
 - 23 promoting and may facilitate other employees taking this option under consideration.
- 24 • *Vanpooling:*
 - 25 – Encourage employees to participate in vanpooling because it has a greater impact on
 - 26 SOV trip reductions.
 - 27 – Provide transit subsidies to vanpool participants to help cover the cost of the van, and/or
 - 28 provide vanpool vehicles to employees directly.
- 29 • *Ridesharing:*
 - 30 – If employees require greater flexibility in arrival and departure times, the ETC could work
 - 31 with ridesharing companies that provide more flexible vanpool and carpool options,
 - 32 such as UberPool or Lyft Line.
- 33 • *Guaranteed Ride Home Service:* A guaranteed ride home service provides free
34 transportation to transit, carpool, and vanpool commuters when an emergency, like an
35 illness, arises. The ETC should facilitate employee registration to the MWCOG Commuter
36 Connections Program, which includes a Guaranteed Ride Home service.
- 37 • *Ridesharing:* One of the barriers to carpooling and vanpooling is the need to have access to
38 a car during the day for business. Consider employing one of the below potential strategies
39 to provide access to vehicles during the day for business:
 - 40 – Provide a fleet of vehicles that can be used during the day for traveling to meetings and
 - 41 conferences.
 - 42 – Work with a ridesharing company, such as Uber or Lyft, and provides a designated pick-
 - 43 up and drop-off lane at the proposed transportation hub, outside of the secure area of
 - 44 campus (See Section 5.1.1.3).

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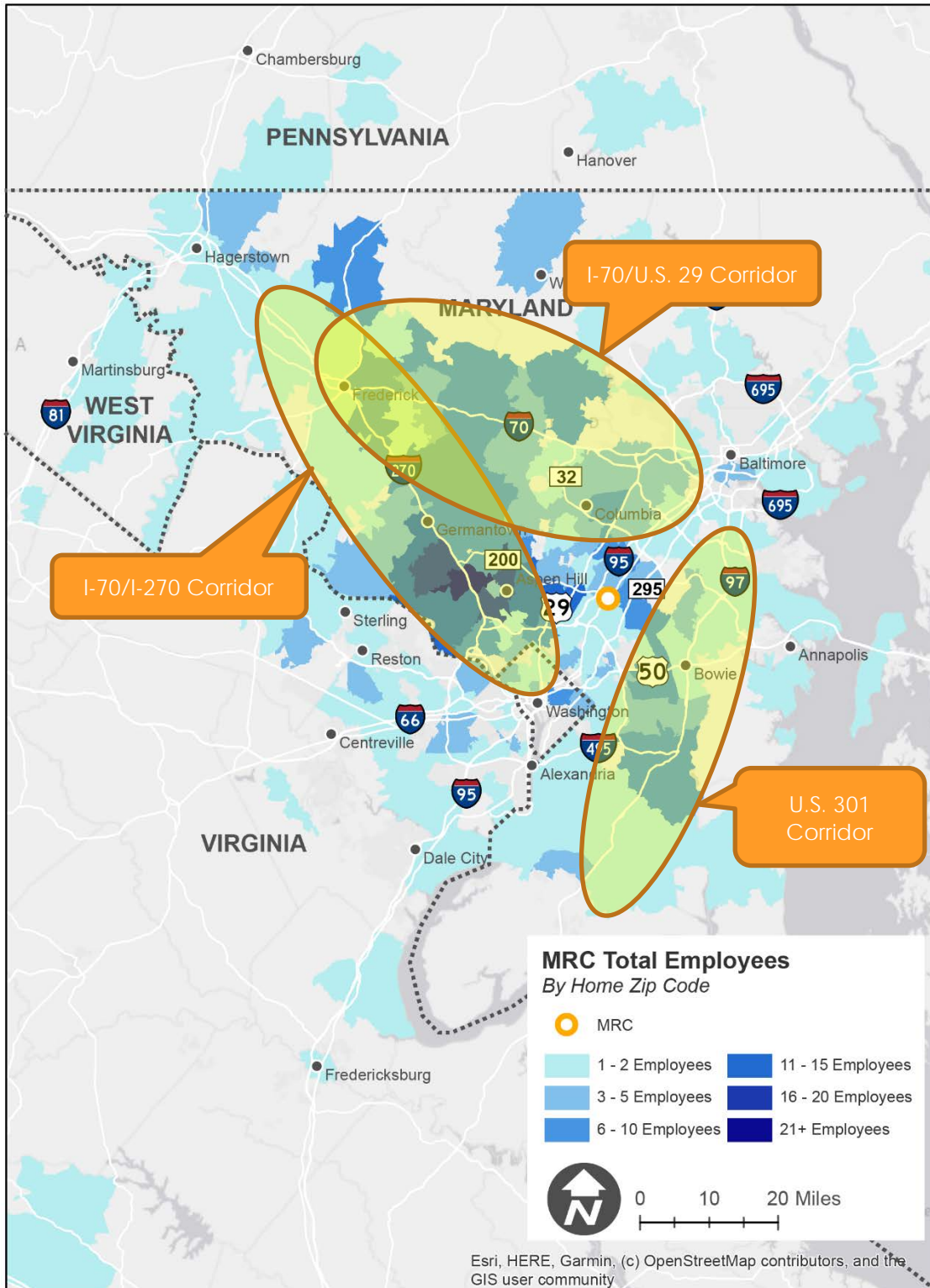


Figure 24: Potential Carpool/Vanpool Corridors

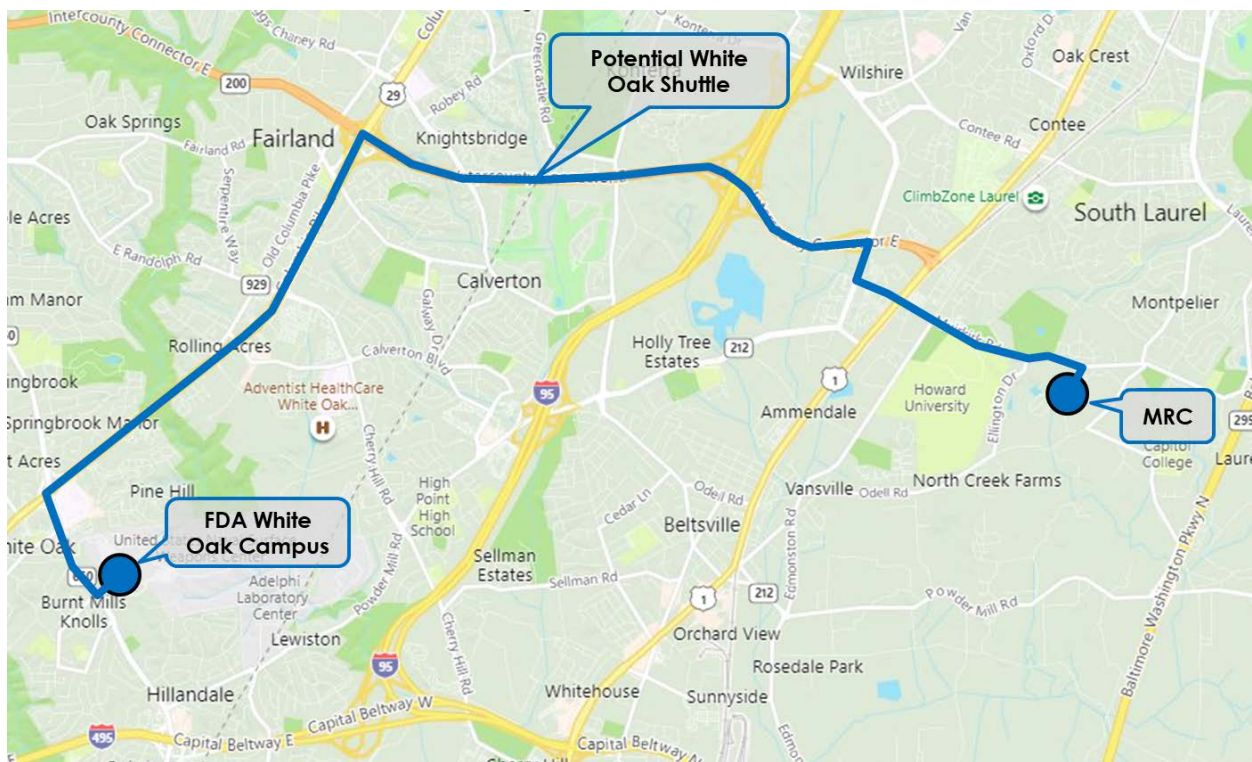
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1 5.1.3.2 Connections to White Oak Campus

2 The White Oak Campus is served by a variety of local and commuter bus routes and lies along
3 the planned U.S. 29 and MD 650 BRT routes. Furthermore, FDA operates six shuttle routes that
4 connect to Metrorail stations including Silver Spring, Medical Center, and Shady Grove.
5 Therefore, FDA should investigate the feasibility of provided a shuttle connection between the
6 White Oak campus and the MRC West Campus. A shuttle connection between the two
7 campuses could allow employees at the MRC West Campus to access the various transit and
8 shuttle routes currently offered at the White Oak campus (Figure 25). It is estimated that a shuttle
9 ride between the MRC West Campus and White Oak Campus would take 15 to 20 minutes,
10 which may make it a viable option for some employees.



11
12 **Figure 25: Potential Shuttle Route to White Oak Campus**

13 5.1.3.3 Accommodations for Flexible Mobility

14 Transportation technology and methods are constantly evolving. In order to stay up to date with
15 current trends, as well as employee expectations, FDA must provide flexible space that can be
16 used for these newer (and future) means of transportation. However, this type of flexibility in
17 transportation is not always easy to accommodate on a secured campus. Whether it is Uber/Lyft
18 or future shared autonomous vehicles, these new technologies introduce challenges to
19 maintaining a secure campus.

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1 Many of the recommendations in this document include the potential for carsharing or TNCs like
2 Uber and Lyft to provide services on the campus. However, increasing this activity as part of the
3 TDM strategies may pose additional challenges for campus security. Currently, taxis and TNC
4 vehicles discharge passengers outside the main security gate. However, as activity increases,
5 adjustments may need to be made to better support these uses. Therefore, FDA should consider
6 developing a strategy to accommodate these types of vehicles today, which will also establish
7 the groundwork for autonomous and shared autonomous vehicles on the Campus in the future.

8 In addition to security policies, FDA should provide a designated area for these activities that are
9 outside of the secure area. As such, the recommended transportation hub should include a
10 pick-up/drop-off area for TNCs and future autonomous vehicles (see Section 5.1.1.3).

11 **Electric Vehicle Charging Stations**

12 Electric vehicle charging stations should be provided throughout the campus within all major
13 parking areas. Although electric vehicle charging stations do not directly reduce peak period
14 trips, they do support a reduction in emissions, which is a major driver behind the requirements
15 that federal agencies have TMPs. Therefore, it is being discussed in this TMP as a potential
16 strategy to consider. FDA should work with interested employees to determine the number of
17 charging stations that should be provided. Preferential locations for charging stations/parking
18 should be considered.

19 **Autonomous Vehicles**

20 It is anticipated that autonomous vehicles will have a significant impact on travel and
21 commuting patterns and behaviors. While the exact impact is unknown at this time, it is
22 anticipated that there will be a mixture of privately-owned autonomous vehicles and shared
23 autonomous vehicles/shuttles. Both types of vehicles present potential safety and logistics
24 concerns for secure campuses. It may be undesirable to allow empty vehicles entry into the site,
25 or vehicles that have other non-MRC West Campus passengers. Thus, FDA should begin to
26 consider how these types of vehicles could be accommodated. While autonomous vehicle
27 technology is still in development, planners and engineers have speculated on the potential
28 advantages and disadvantages of this technology on commuting, including:

- 29 • *Safer Roadways with Higher Capacities:* Autonomous vehicles will be capable of split-
30 second reactions, and through communication with other vehicles, be able to anticipate
31 hazards on the roadway. Not only will this improve safety, it will also allow vehicles to drive
32 much closer together, thus increasing capacity on existing roadways.
- 33 • *Reduced Congestion:* Vehicles will have access to real-time traffic information to make
34 decisions about the most efficient travel routes, and when combined with increased
35 roadway capacity, it is expected to reduce peak period congestion.
- 36 • *Reduced Parking Demand/Off-Site Parking:* It is anticipated that vehicle sharing, along with
37 the ability for a vehicle to drive to an off-site location by itself, is anticipated to reduce and
38 offset parking demand. This is critical in central business districts where property is often a
39 premium and would eliminate the need for expensive parking facilities. Furthermore, if

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- 1 vehicles are permitted to operate without an occupant, an employee may send the vehicle
2 home, or to another location, and avoid parking at their place of work altogether.
- 3 • *Increased Parking Capacity*: Autonomous vehicles will be capable of parking closer
4 together because they do not require space for passengers to enter the vehicle in the
5 parking space, thus increasing overall parking lot capacity.
 - 6 • *Reduced Transit Mode Share*: Increased roadway efficiencies, as well as lower costs and
7 improved access to vehicles through vehicle sharing, are anticipated to compete with
8 transit, particularly local bus services.
 - 9 • *Extension of Peak Periods*: If vehicles are permitted to operate without a person inside, and
10 vehicle sharing is not as widespread as anticipated, it is possible that autonomous vehicles
11 could lead to the extension of peak periods where vehicles are traveling from a place of
12 residence to a destination, and back in one peak period. This may be particularly critical in
13 central business districts where parking is more expensive. Passengers may elect to send their
14 vehicle home or to a parking facility on the outskirts of an urban area to wait for the return
15 trip.

16 Widespread, measurable impacts on the factors listed above are not likely to be felt for another
17 10 to 15 years as connected and autonomous vehicles slowly enter the market. Therefore, they
18 cannot be considered as a TDM strategy currently. However, as time progresses, and this
19 document is updated, the role of connected and autonomous vehicles may increase and
20 could begin to impact commute modes. FDA could begin to plan for some of the potential
21 impacts in the design of its facilities, including:

- 22 • Designated pick-up and drop-off areas with queue storage for autonomous vehicles. The
23 planned transportation hub could be utilized by ridesharing services in the short-term and by
24 autonomous vehicles in the long-term (see Section 5.1.3.3).
- 25 • Design parking structures so that they could be reutilized as office or other space in the
26 future if autonomous vehicles result in a reduction in parking demand.

27 **5.1.4 Reduce Peak Period Travel Demand**

28 Reducing peak period travel demand by encouraging employees to work from home or
29 another off-campus location, delay their arrival to work, or implementing TDM-supportive
30 parking policies, can help to reduce peak period travel demand. Furthermore, telecommuting
31 and flexible work schedules provide employees with the added benefit of reduced or
32 eliminated commute times.

33 **5.1.4.1 Telecommuting**

34 The employee commuter survey results indicate that approximately 22 percent of current MRC
35 West Campus employees telecommuted one or two days a week prior to the COVID-19
36 pandemic. This is likely due to the nature of the site as a research campus, where employees
37 need access to on-site facilities like laboratories and the animal research areas. However, the
38 survey indicated that almost 60 percent of employees anticipate working from home more often
39 after the COVID-19 pandemic subsides, and current guidance from the Department of Health
40 and Human Services appears to be encouraging agencies to continue to permit working from
41 home. The new policy allows certain employees that are not required to be onsite to work from

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1 home for up to 64 hours per pay period with only 16 hours required onsite. Thus, telecommuting
2 could constitute significant portion of the MRC West Campus campus' non-SOV mode share.
3 This is particularly true in Phase 3 where a significant portion of the employees consolidated on
4 the campus will not require laboratory access.

5 However, it should be noted that a higher percentage of employees teleworking would likely
6 work against the viability of other programs such as carpooling/vanpooling, and transit. For
7 example, the FDA White Oak campus' carpooling and vanpooling program was one of the
8 most successful of any federal agency in the DC area prior to the pandemic. However, post-
9 pandemic, carpooling and vanpooling have no longer been viable. More variability and less
10 frequency in commute trips to the MRC West Campus on any given weekday may make it
11 harder to justify more costly transit, pedestrian and bicycle connections discussed in this report.
12 Commuting trends and policies should continue to be monitored to adjust strategies according
13 to employee needs.

14 The ETC should continue to evaluate if any existing or potential new (consolidated) employee
15 positions can be successfully conducted from home or other off-campus location one or more
16 days per week and provide eligible employees with laptops or other mobile workstations. This
17 would include working with internal department heads to develop criteria and guidance to help
18 determine which various job functions are well-suited for telecommuting.

19 Furthermore, according to the surveys, telecommuting typically occurs on Mondays and Fridays.
20 To reduce peak parking demand, telecommuting should be encouraged during peak
21 commuting days, which are typically Tuesday through Thursday. With a parking ratio of 1:2, FDA
22 will need to carefully plan when staff come into work on the campus so as not to create
23 congestion and parking issues by encouraging staff to come in on Mondays or Fridays.

24 Encouraging telecommuting on peak commuting days can be done by offering additional
25 incentives, such as a guaranteed parking space for use on days that the employee must be on-
26 campus, or rewards, such as discounts at the on-site cafeteria or specific reserved times at the
27 fitness center. If designated parking spaces are provided, they should be coordinated with all
28 telecommuting employees so that they can be shared. Furthermore, they should be signed to
29 allow employees that have a later arrival (i.e. after 9:00 AM) to park in unoccupied spaces.

30 Another method could be to utilize a reservation system that either reserves a parking space or
31 a workspace within the facility. Many firms that have downsized office space due to the
32 anticipation of a portion of its workforce telecommuting on a regular basis have developed
33 systems that allow employees to see the availability of workspaces and reserve a workspace
34 when coming to work in person. This type of system allows an employee, or a group of
35 employees, to make better decisions about when to schedule work in the office. FDA could
36 consider utilizing a reservation system to ensure that employees spread out more efficiently over
37 the week.

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1 5.1.4.2 Flexible and Alternative Work Schedule

2 FDA should consider enhancing existing policies that allow employees to arrive off-peak. For
3 example, a common strategy is to establish core working hours, typically 10:00 AM – 3:00 PM, in
4 which all employees are expected to be working. This would allow employees greater flexibility
5 in selecting a commute time. For example, one employee could work from 7:00 AM – 3:00 PM
6 while another could work 10:00 AM – 6:00 PM.

7 However, the biggest hurdle to a successful flexible work schedule is the ability to find parking. It
8 may be difficult for employees arriving later in the morning to find parking, which could
9 discourage off-peak commuting. Therefore, as part of the flexible work schedule policy,
10 incentivizing off-peak commuting by providing guaranteed parking for those employees who
11 register and commit to arriving after 9:00 AM should be considered. These parking spaces could
12 overlap with those provided for teleworking employees.

13 In addition to a flexible work schedule, FDA should consider an alternative work schedule (i.e.
14 four ten-hour days) that encourages employees to take their day off during peak commuting
15 days, which are typically Tuesday, Wednesday, and Thursday. Similar to the recommendations
16 for teleworking, incentives, such as a designated, preferential parking space for use on days that
17 the employee must be on-campus, should be considered. Preferential parking for alternative
18 work schedule employees could be coordinated with telecommuting employees so that one
19 reserved parking space could be used by multiple employees with off-set on-campus workdays.
20 Spaces that are not utilized by 9:00 AM could be made available to general employees.

21 5.1.4.3 Parking Policies

22 Parking policies are often the best way to influence mode choice because it often leads to an
23 increase in the real and/or perceived cost of drive-alone commuting. Strategies can include
24 implementing or increasing parking fees, providing preferential parking for carpool/vanpool
25 vehicles, or incentivizing employees for not using a parking space.

26 Based on the site conditions and survey feedback, consideration could be given to the following
27 policies if additional trip reduction support is needed:

- 28 • Parking Fees: Future consideration may be given to implementing daily or monthly parking
29 fees. This would require changes to FDA policies that currently do not support parking fees.
30 Furthermore, the potential future implementation of parking fees must be considered
31 carefully, given the location of the MRC West Campus and the limited number of available
32 modes to access the campus. Furthermore, consideration should be given to balancing the
33 need to reduce SOV trips with the impact to employees.

34
35 Parking fees have been proven to have a significant impact on drive-alone commuting.
36 Potential benefits include a reduction in SOV trips to the campus, decreased number of cars
37 parking at the campus, greater operational funding for maintenance of parking facilities, as
38 well as TDM programs, and the potential for assigned, reserved, or prioritized parking spots.

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1 However, parking fees need to be evaluated in the context of available alternative options
2 and employee economic status.

- 3
4 • Parking Cash-Out: Assign a monetary value to each parking space, then employees are
5 offered a per-month benefit to not use their parking space. This could be offered as an
6 additional incentive for transit riders, carpool/vanpool participants, and walkers/bikers, and
7 could be funded through the parking fees.

8
9 While current policies do not permit an additional cash benefit for federal employees, a
10 parking cash-out could be considered in the future if policies change. Parking cash-out
11 programs have been proven successful in the private sector, particularly in California, where
12 a state-wide program was implemented that requires employers to offer the incentive. While
13 there are no documented examples of parking cash-out at a federal level, it has been
14 implemented at municipal governments, including the City of Los Angeles. Furthermore, the
15 Washington, DC Council approved the Transportation Benefits Equity Amendment Act of
16 2019 in April 2020 that allows employees to take a cash value for free parking spaces offered
17 by their employer.

- 18
19 • As an alternative to a parking cash-out, consider offering a “three for free” program, when
20 permissible by federal law, whereby parkers are offered incentives for a three-month period
21 in return for giving up their parking. Incentives could include a free transit pass, subsidy for
22 commuting equipment (i.e. bikes, scooters, shoes, bicycle safety equipment, etc.), gym
23 membership, wellness classes, etc., for the three-month period. However, it should be noted
24 that FDA already provides the maximum allowable transit benefit to employees. Thus,
25 policies would need to be revised in order to permit this strategy.

26 However, given the challenges of the location, other incentivizing strategies should be
27 considered before implementing parking fees.

28 **5.1.5 Enhance Connections to the Community**

29 One of the most substantial ways to increase non-SOV commute mode share is to encourage
30 employees to live close to where they work and/or live along transit lines that serve the MRC
31 West Campus. The results of the survey indicate that a substantial portion of existing MRC West
32 Campus employees live along the I-95 corridor. However, many of the employees that could be
33 consolidated to the MRC West Campus live further away, on the I-270 corridor, where transit is
34 not an option that is reasonably comparable to driving alone. While FDA cannot promote
35 specific locations to live, they can work with other agencies to provide enhanced connections
36 to the nearby communities that would make living closer to work more attractive, as well as
37 enhancing non-SOV connections between the MRC West Campus and these areas.

38 While the MRC West Campus itself is located in a relatively low-density, pastoral-like area, it is
39 only a few miles from higher density residential areas including the new Brickyard development
40 to the west, adjacent to the Muirkirk station, the proposed Konterra development, also to the
41 west, the Crestleigh and South Ridge apartment and townhome neighborhoods to the east, and
42 the residential areas of Laurel to the north. Enhancing pedestrian, bicycle, and transit
43 connections to and from these areas could encourage employees to live near the MRC West

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- 1 Campus and also provide a potential added benefit for the community by better linking the
2 MRC West Campus with nearby retail and dining options.

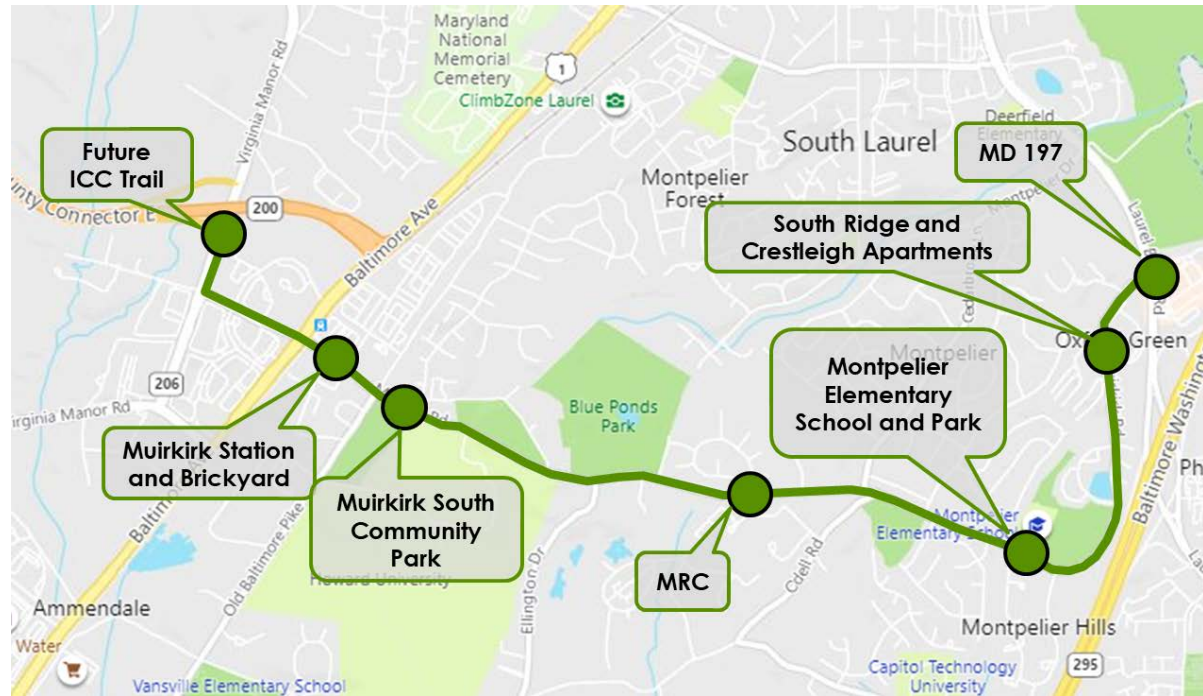
3 **5.1.5.1 Internal/External Pedestrian/Bicycle Circulation**

4 There are currently no continuous sidewalks or bicycle facilities connecting the MRC West
5 Campus with the adjacent community. Therefore, it is recommended that FDA work with Prince
6 George's County to provide these facilities along Muirkirk Road to connect to the existing
7 facilities to the east and west of the campus. Furthermore, consideration should be given to
8 constructing a minimum 10-foot-wide multi-use path, rather on-street bicycle lanes. Shoulders
9 along some sections of Muirkirk Road a relatively narrow and there are no opportunities for on-
10 street bicycle lanes where Muirkirk Road widens to two lanes in each direction east and west of
11 the campus. A multi-use path would also provide a separate bicycle facility that may be more
12 comfortable for average riders than a shoulder bike lane.

13 It is recommended that this facility extend along Muirkirk Road between MD 197 and the ICC
14 trail on Konterra Drive (Figure 26). This would provide access to nearby residential areas, the
15 Muirkirk MARC station, the Brickyard and future Konterra development, and the existing on-street
16 bike lanes on Cedarhurst Drive. Furthermore, FDA should advocate for the completion of the ICC
17 trail which, when completed, would run the full length of the ICC and could be a potential
18 bicycle commuter route for employees that live west of I-95. A multi-use path would also provide
19 additional community benefits by connecting residential areas, other employers, retail, transit,
20 parks, and schools.

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1
2 **Figure 26: Potential Multi-Use Trail with Points of Interest for Future Bikeshare/E-Scooter**

3 If a multi-use path or other pedestrian and bicycle facility is provided, consideration should also
4 be given to the following:

- 5
- 6 • Provide shower and locker facilities on campus that can be accessed by all employees.
 - 7 • Provide sheltered bicycle racks near building entrances. Sheltered bicycle racks should also
8 include tool and pump stations to allow employees to maintain their bicycles and/or electric
9 bike charging capability. It should be noted that the Master Plan shows areas for bicycle
10 parking near the main entrance (Building 2A) as well as at the entrance for Buildings 3A and
11 3B.
 - 12 • Design the site to be pedestrian and bicycle friendly by:
 - 13 ○ Provide bicycle and pedestrian connections to Muirkirk Road.
 - 14 ○ Provide bicycle and pedestrian connections between all buildings and parking
15 areas.
 - 16 ○ Ensure that all security entrances have pedestrian and bicycle access.
 - 17 • Coordinate with Prince George's County to establish a bikeshare or scooter system along
18 the proposed multi-use path and within the surrounding community with stations that include
19 the MRC West Campus transportation hub, the Muirkirk MARC station, the Brickyard, Konterra
20 (future), and other nearby destinations.
 - 21 • Establish a bicycle and pedestrian commuter group to provide support, advice, and
22 advocacy for commuters.
 - 23 • Consider coordinating with other agencies and campuses near the MRC West Campus to
24 advocate for improved pedestrian and bicycle connections throughout the area.
 - 25 • Ensure that all new or improved infrastructure on and off-site are designed to meet ADA
accessibility standards that are in place at the time of design.

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1 5.1.5.2 Enhance Transit

2 Section 5.1.2 provides several recommendations for enhanced connections to transit through
3 FDA shuttle or new or improved RTA, WMATA, or MTA services. One of the most significant
4 roadblocks to enhancing public transit connections directly to the site is the relatively low on-site
5 population, as well as the dispersed nature of employee residences. It is recommended that an
6 area-wide TMP strategy be considered, particularly as it relates to transit, in order to capitalize on
7 the combined commuter ridership from the various agencies and campuses around the MRC
8 West Campus. This could make it easier for a transit agency to justify the expense of providing
9 new or modified transit service to the area.

10 However, another approach would be to work with the various transit agencies to assess if
11 improved transit services could be provided to the MRC West Campus in combination with
12 improvements to serve the nearby communities. For example, a more frequent operation of RTA
13 Route 302, or an extension of WMATA Route 89/89M to the area near the MRC West Campus
14 could enhance transit for employees at the MRC West Campus as well as nearby residents.

15 5.2 ROLES AND RESPONSIBILITIES

16 Implementing a TMP on the MRC West Campus will require coordination between FDA, GSA,
17 and state and local agencies, including SHA, MWCOG, NCPC, NPS, WMATA, MTA, RTA, and
18 Prince George's County. The following lists recommended roles and responsibilities for each
19 agency.

20 FDA and GSA

- 21 • Structure policies that affect mode choice, such as parking, teleworking, and flexible and
22 alternative work schedules.
- 23 • Establish ETC to implement and manage the TDM program.
- 24 • Establish robust carpool and vanpool programs.
- 25 • Coordinate with local agencies to advocate for improved transit services and pedestrian
26 and bicycle facilities.
- 27 • Provide on-campus enhancements that support the TDM recommendations made above.
- 28 • Begin to establish policies for accommodating TNCs and future autonomous vehicles more
29 efficiently and with easier access from all agencies on the Campus.
- 30 • Establish a shuttle service to the Muirkirk MARC station, College Park Metrorail station, the
31 White Oak Campus transportation center, and/or other FDA office locations. Consider
32 working with the nearby agencies and campuses to combine resources to enhance shuttle
33 connections, new or improved transit services, carpool and vanpool programs, etc.
- 34 • Work with SHA and Prince George's County to address pedestrian and bicycle connectivity
35 on and off the Campus.

36 NCPC and MWCOG

- 37 • Provide TDM strategy guidance.
- 38 • Maintain the Commuter Connections program with Guaranteed Ride Home services.

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Transportation Demand Management (TDM)

1 SHA/ Prince George's County

- 2 • Work with FDA and GSA to identify opportunities for improved pedestrian and bicycle
- 3 facilities.

4 WMATA/MTA/RTA

- 5 • Work with FDA, GSA, and other nearby campuses and agencies to enhance transit
- 6 connections in the area.

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1 6.0 IMPLEMENTATION

2 While the first phase of growth at the MRC West Campus is approximately five years out, many of
3 the proposed strategies recommended in this TMP will require design considerations, planning,
4 coordination with employees, and acquisition of funding, while others could be implemented
5 relatively efficiently with the existing employees and expanded to consolidated/new
6 employees. The below implementation strategy provides a roadmap for FDA to ensure that
7 resources and facilities are available as soon as they are needed, and is divided into four
8 phases:

- 9 • **Phase 1 (within 5 years):** Reduce the number of available employee parking spaces and
10 delineate visitor parking. Create a commuter website for the TMP and assign a contact
11 person that can coordinate with MRC West Campus employees. Review TMPs and
12 commuting policies of other nearby agencies to identify opportunities to coordinate TDM
13 efforts, including enhanced access to transit and shuttle connections. Begin to
14 implement strategies that are appropriate for the onsite population and identify and
15 secure funding for recommendations. Ensure that the design of onsite facilities, such as
16 the transit center, incorporate specifications for transit vehicles, TNC's, etc.
- 17 • **After Phase 2 Consolidation (within 5 – 10 years):** Continue planning, funding, and design
18 process for larger-scale recommendations. Incorporate consolidated/new employees
19 into the strategies as they move into new on-campus facilities. This phase of the TMP
20 implementation is predicated on the timeline of construction Phase 2 of the Master Plan.
21 If the completion of Phase 2 is delayed, the start of this implementation phase would also
22 be delayed. Furthermore, the ability to achieve the 1:2 parking ratio is predicated on the
23 staff that is consolidated to the campus in this phase. A higher proportion of laboratory
24 staff, which typically work on campus more often due to the need to access lab
25 equipment, will make it harder to achieve this goal.
- 26 • **Phase 3 Full Site Population (within 10 – 20 years):** All recommended TDM strategies
27 should be implemented and available to all employees, support staff, and contractors.
28 Evaluate the need for additional measures that may be needed to maintain or exceed
29 the 50% SOV requirement given the large, anticipated increase in population in this
30 phase. This phase of the TMP implementation is predicated on the timeline of
31 construction for the full build-out of the master plan. Furthermore, the ability to achieve a
32 1:2 parking ratio is predicated on the availability of high-quality transit within proximity of
33 the MRC West Campus.
- 34 • **Maintenance Phase (beyond 20 years):** Continue to monitor TMP needs. Track new
35 technology and incorporate new strategies as needed.

36 As noted earlier in this document, the MRC West Campus currently has a relatively low
37 population with an SOV mode share of 97%. Although the NCPC parking maximum requirement

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1 of one space per two employees would require an SOV mode share of 50%, it may not be
2 possible to meet these goals immediately upon initiation of the TMP, outside of a structured
3 teleworking policy and physical parking supply reductions. Many of the recommended
4 strategies would require a larger employee population to support. Table 9 shows the
5 implementation stages and how each category of recommendation would help to get the
6 MRC West Campus to the ultimate 50% SOV mode share goal.

7 Furthermore, a higher percentage of employees teleworking would likely work against the
8 viability of other programs such as carpooling/vanpooling and transit. More variability and less
9 frequency in commute trips to the MRC West Campus on any given weekday may make it
10 harder to justify more costly transit, pedestrian and bicycle connections discussed in this report.
11 Commuting trends and policies should continue to be monitored to adjust strategies according
12 to employee needs.

13 It should also be noted that it may be possible to achieve greater mode share reductions on
14 certain strategies, while others may be under the recommended goals. Some strategies are
15 complimentary while others may not. Employee commuting needs may also change over time
16 which could make some strategies more effective than others. Therefore, the recommended
17 percent mode share goals shown in Table 9 should be considered as a guide only.

18 The implementation matrices that follow Table 9 list the implementation steps for each strategy
19 by phase. The percentages listed with each strategy should be considered as mode share goals
20 to expand beyond what is currently being done to meet the ultimate 50% SOV requirement.
21 Strategies without a percentage goal are considered supportive to other TDM strategies, and
22 thus do not have a separate mode share goal. However, FDA has the flexibility achieve the
23 overall goal utilizing any combination of strategies.

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1 Table 9: Phasing Strategy

Phase	Timeframe	Mode Share (Parking Ratio)	
Phase 1	Within 5 Years	<p>Starting SOV Mode Share (Parking Ratio): 97% (1:0.94)</p> <p>Reduce the number of available employee parking spaces: 0%</p> <p>Delineate 35 visitor parking spaces: 0%</p> <p>Provide commute website and contact person for MRC West Campus staff: 0%</p> <p>Review TMPs of other nearby agencies to identify opportunities to coordinate: 0%</p> <p>Telework/Flex Days: 25%</p> <p>Resulting SOV Mode Share (Parking Ratio): 75% (1:1.33)</p>	
Phase 2 (2030) 168 Additional Employees	5 – 10 Years (subject to change based on construction timeline)	<p>Starting SOV Mode Share: 75% (1:1.33)</p> <p>Carpool/Vanpool: 1%</p> <p>Accommodate Flexible Mobility: 1%</p> <p>Telework/Flex Days: 44%</p> <p>Parking Policies: 2%</p> <p>Ped/Bike: 1%</p> <p>Local Transit: 1%</p> <p>Resulting SOV Mode Share: 50% (1:2)</p>	
Phase 3 (2040) Full Site Population	10 – 20 Years (subject to change based on construction timeline and availability of high-quality transit)	<p>Starting SOV Mode Share: 50% (1:2)</p> <p>Connection to Muirkirk Station: 2%</p> <p>Connection to Metrorail: 2%</p> <p>New/Improved Transit: 1%</p> <p>Carpool/Vanpool: 3%</p> <p>Connect to White Oak Campus: 1%</p> <p>Accommodate Flexible Mobility: 1%</p> <p>Telework/Flex Days: 35%</p> <p>Parking Policies: 1%</p> <p>Ped/Bike Connections: 2%</p> <p>Local Transit: 2%</p> <p>Resulting SOV Mode Share: ≤50% (≤1:2)</p>	
Maintenance Phase	>20 Years	Target Mode Share:	<50% (<1:2)

2

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Conduct outreach and education, and provide on-site amenities to encourage, support, and de-stigmatize non-SOV commute modes.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Employee Transportation Coordinator (ETC)	<ul style="list-style-type: none"> • Develop commute website and assign contact person to coordinate with MRC West Campus employees regarding their commutes. • Coordinate with other nearby agencies or campuses to evaluate the feasibility of combining TDM strategy efforts. • Begin development of a monitoring and evaluation program. • Compile and distribute educational information regarding available commute modes and develop package for new employees. • Begin implementing responsibilities outlined in Section 5.1.1.1. 	<ul style="list-style-type: none"> • Continue coordination with other nearby agencies and campuses to manage TDM strategy implementation. • Provide ETC on site at the MRC West Campus. • Begin monitoring and evaluation, including the biennial reports required by NCPC 	<ul style="list-style-type: none"> • Continue all ETC responsibilities listed in Section 5.1.1.1. • Update TMP to account for new transportation and commute technology and trends. 	<ul style="list-style-type: none"> • Evaluate need for additional staff. • Continue to re-evaluate TDM strategies and implementation.
Commute Management Platform	<ul style="list-style-type: none"> • Explore the feasibility of utilizing a commute management platform like RideAmigos or Luum. 	<ul style="list-style-type: none"> • Implement commute management platform like RideAmigos or LUUM. 	<ul style="list-style-type: none"> • Re-evaluate commute management platform. 	<ul style="list-style-type: none"> • Continue re-evaluation of commute management platform options.
On-Site Amenities	<ul style="list-style-type: none"> • Ensure that on-site amenities remain components of the site during the implementation of the Master Plan. • Begin initial planning and design for the transportation hub. • Evaluate the demand for providing fleet vehicles, carsharing, or a transportation network company (TNC) account for employees that need to travel to work during the day. 	<ul style="list-style-type: none"> • If warranted, provide fleet vehicles, carsharing, or a TNC account for employees that need to travel for work during the day. • Construct visitor center/transportation hub. 	<ul style="list-style-type: none"> • Consider new amenities as new transportation technology becomes available. • Develop a policy for accommodating autonomous vehicles onsite. 	<ul style="list-style-type: none"> • Consider new amenities as new transportation technology becomes available.

2

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1



Enhance transit services and connections to make it a more viable option, particularly for those living along the MARC Camden line and along the Metrorail Yellow and Green lines.


Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Connect to Muirkirk Station (1% – 3%)	<ul style="list-style-type: none"> Assess the feasibility of providing a shuttle connection to the Muirkirk MARC station. 	<ul style="list-style-type: none"> Continue to assess the feasibility of providing a shuttle connection to the Muirkirk MARC station. 	<ul style="list-style-type: none"> Begin peak period shuttle service to and from the Muirkirk station if warranted. 	<ul style="list-style-type: none"> Re-evaluate need for shuttle service a new travel trends and technology become available.
Connect to Metrorail (1% - 3%)	<ul style="list-style-type: none"> Assess the feasibility of providing a shuttle connection to the College Park Metrorail station, and/or Greenbelt Metrorail station. Consider coordinating with other nearby agencies and campuses to provide this shuttle service. 	<ul style="list-style-type: none"> Continue to assess the feasibility of providing a shuttle connection to the College Park Metrorail station, and/or Greenbelt Metrorail station. Consider coordinating with other nearby agencies and campuses to provide this shuttle service. 	<ul style="list-style-type: none"> If potential ridership demand warrants, begin peak period shuttle service to and from the College Park Metrorail station and/or Greenbelt Metrorail station. 	<ul style="list-style-type: none"> Re-evaluate need for shuttle service a new travel trends and technology become available.
New/ Improved Transit Services (1% - 3%)	<ul style="list-style-type: none"> Coordinate with Washington Metropolitan Area Transit Authority (WMATA), Maryland Transit Administration (MTA), and Regional Transportation Agency (RTA) to identify the conditions required to provide new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> Construct visitor center/transportation hub. Continue coordination with WMATA, MTA, and RTA to evaluate the feasibility of new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> Coordinate with WMATA, MTA, and RTA to implement new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> Continue coordination with agencies to maximize impact of new services, technologies, and commuting trends.
Additional Transit Incentives/ Programs	<ul style="list-style-type: none"> Continue to assist employees in registering for a guaranteed ride home service. Continue to assist employees with obtaining the highest allowable transit subsidies. 	<ul style="list-style-type: none"> In new transit connections are provided, conduct on-board informational campaigns for MRC West Campus employees. Establish public transit user group and implement transit ambassador program. 	<ul style="list-style-type: none"> Continue strategies as needed. 	<ul style="list-style-type: none"> Continue strategies as needed.

2

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1



Provide flexible non-transit options for employees whom transit is not a viable or attractive option.

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
Carpool/ Vanpool (3% - 5%)	<ul style="list-style-type: none"> Aggregate employee zip codes and identify potential carpool/vanpool corridors. Assist employees in registering for a guaranteed ride home service. 	<ul style="list-style-type: none"> Begin carpool and vanpool ride matching for existing employees at the MRC West Campus, if carpooling/vanpooling returns as a viable commute mode based on teleworking trends. Hold meetings of the carpoolers/vanpoolers and help them identify meeting spots and resolve any potential issues. Implement a method for access to transportation during the day. Provide electric vehicle charging stations. 	<ul style="list-style-type: none"> Implement carpool and vanpool corridors along I-270 and I-95/U.S. 29. Continue to monitor carpool and vanpool program and adjust program as needed. Evaluate need for additional electric vehicle charging stations. 	<ul style="list-style-type: none"> Monitor carpool and vanpool program and adjust based on transportation trends and technology.
Connect to White Oak Campus (1% - 2%)	<ul style="list-style-type: none"> Begin exploring the need for and feasibility of a shuttle connection between the White Oak Campus and the MRC West Campus. 	<ul style="list-style-type: none"> If warranted by potential ridership, begin shuttle service between the White Oak Campus, or other FDA office locations, and the MRC West Campus. 	<ul style="list-style-type: none"> If warranted, begin shuttle service between the White Oak Campus, or other FDA office location, and the MRC West Campus. 	<ul style="list-style-type: none"> Re-evaluate need for shuttle service a new travel trends and technology become available.
Accommodations for Flexible Mobility (0% - 1%)	<ul style="list-style-type: none"> Work with FDA leadership to develop a policy for accommodating TNCs, carsharing or fleet vehicles, and autonomous vehicles. 	<ul style="list-style-type: none"> Provide electric vehicle charging stations. 	<ul style="list-style-type: none"> Finalize plan for accommodating autonomous vehicles onsite. 	<ul style="list-style-type: none"> Continue to respond to changing mobility needs and technology.

2

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Reduce peak period travel demand by incentivizing working from home or flexible work hours on peak commuting days.

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
<p>Tele-commuting/ Flexible and Alternative Work Schedules (20% - 40%)</p>	<ul style="list-style-type: none"> • Work with managers to identify jobs/employees that would be good candidates for telecommuting. • Establish a reservation system that will allow employees to see how many people are planned to be on-site on a particular day and to “reserve” a workstation and/or parking space. • Work with FDA leadership to establish a core set of hours that provides employees with the flexibility to arrive off-peak and work with managers to identify opportunities for compressed days off. • Develop an incentive plan to encourage telecommuting and utilization of their compressed day off on peak commuting days. 	<ul style="list-style-type: none"> • Extend telecommuting and flexible work schedule policies to the consolidated employees. • Implement and enforce carpool/vanpool parking spaces. 	<ul style="list-style-type: none"> • Extend telecommuting and flexible work schedule policies to the consolidated employees. 	<ul style="list-style-type: none"> • Evaluate additional incentives for demand balancing of teleworking, flexible work schedule, and alternative work schedule employees, as needed.
<p>Parking Policies (3% - 5%)</p>	<ul style="list-style-type: none"> • Begin to develop revised parking policies to include designated and enforced carpool/vanpool parking spaces. 	<ul style="list-style-type: none"> • Determine the feasibility of adjusting regulations to permit a trial run of a “three for free” program whereby parkers are offered a free transit pass for three months in return for giving up their parking. • Monitor preferential parking and provide additional parking spaces as needed. • Evaluate the need for other parking strategies discussed in Section 5.1.4.3. 	<ul style="list-style-type: none"> • Monitor preferential parking and provide additional parking spaces as needed. • Evaluate the impact of autonomous vehicles on parking. Consider redesigning parking facilities to condense parking for autonomous vehicles and alternative uses for parking structures. • If feasible, fully implement “three for free” program whereby parkers are offered a free transit pass for three months in return for giving up their parking. 	<ul style="list-style-type: none"> • Evaluate other parking policies, as needed to help incentivize other modes of transportation.

2

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Enhance connections to the adjacent community to encourage living near the campus and walking/biking to the MRC.

1

Strategy	Phase 1 (within 5 Years)	Phase 2 Consolidation (within 5 – 10 Years)	Phase 3 Full Site Population (within 10 – 20 Years)	Maintenance Phase (Beyond 20 Years)
<p>Ped/Bike Connections (1% - 2%)</p>	<ul style="list-style-type: none"> • Ensure that future site improvements include enhancements for pedestrians and bicyclists, including bike storage. • Ensure that future building designs include shower and locker facilities. • Begin discussions with Prince George’s County and Maryland Department of Transportation State Highway Administration (SHA) regarding the planning and design of pedestrian and bicycle facilities along Muirkirk Road. • Encourage employees to use ridesharing apps for trips during the day. • Designate a TNC vehicle pick-up/drop-off area. 	<ul style="list-style-type: none"> • Complete internal enhancements for pedestrians and bicyclists, including installation of bike storage. • Coordinate with Prince George’s County and SHA to complete the design of the recommended pedestrian and bicycle facilities on Muirkirk Road. • Work with other nearby agencies and campuses to advocate for improved pedestrian and bicycle infrastructure throughout the area. • Organize a pedestrian and bicycle commuter group. 	<ul style="list-style-type: none"> • Coordinate with Prince George’s County and SHA to complete the construction of the recommended pedestrian and bicycle facilities on Muirkirk Road. • Work with the County and SHA to construct other planned facilities in the area, including those along Odell Road. • Coordinate with Prince George’s County to provide bike or scooter sharing for employees to utilize during the day and to commute to and from the Muirkirk station. Consider coordinating with a deployment of other stations throughout the area. • Begin a pedestrian and bicycle user group on campus to discuss issues with walking and biking, form walk and bike commute groups, and help FDA advocate for off-campus improvements. 	<ul style="list-style-type: none"> • Continue to monitor pedestrian and bicycle needs.
<p>Enhance Local Transit (0% - 1%)</p>	<ul style="list-style-type: none"> • Coordinate with Washington Metropolitan Area Transit Authority (WMATA), Maryland Transit Administration (MTA), and Regional Transportation Agency (RTA) to identify the conditions required to provide new or improved transit service to the MRC West Campus. 	<ul style="list-style-type: none"> • Work with RTA, MTA, and WMATA to determine if new or modified transit services to the MRC West Campus are feasible. 	<ul style="list-style-type: none"> • Continue to Work with RTA, MTA, and WMATA to determine if new or modified transit services to the MRC West Campus are feasible. 	<ul style="list-style-type: none"> • Continue to Work with RTA, MTA, and WMATA to determine if new or modified transit services to the MRC West Campus are feasible.

2

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Monitoring and Evaluation

1 7.0 MONITORING AND EVALUATION

2 This TMP is a flexible document that is intended to be shaped and reshaped as commuting
3 patterns and needs change. Each of the TDM strategies must be evaluated and changed as
4 the program grows to ensure that the needs of the employees are being met and that the
5 overall SOV reduction goals are achieved. NCPC has determined that regular reporting is a
6 critical component to the overall success of a TDM program, and thus requires biennial reporting
7 for all facilities with master plans or for projects that have transportation implication, including
8 those that seek a parking ratio deviation. It should be noted that the MRC West Campus is not
9 currently in compliance with the required parking ratio.

10 Changes to infrastructure, transit services, and travel trends can impact the effectiveness of the
11 proposed strategies. Thus, it is important to begin monitoring upon acceptance of the Master
12 Plan and provide updates to the TMP as needed. During each evaluation period, the following
13 steps must be performed:

14 The biennial report will update NCPC with the progress of the TMP, as well as allow the agency
15 and the ETC to reevaluate their own progress to the transportation goals. Changes to
16 infrastructure, transit services, and travel trends can impact the effectiveness of the proposed
17 strategies. Thus, it is important to begin monitoring upon acceptance of the Master Plan and
18 provide updates to the TMP as needed. The biennial report should be based on data that FDA
19 should already be collecting and monitoring as part of the TMP. During each evaluation period,
20 the following steps must be performed:

- 21 • Determine the extent to which each program has achieved its objective.
- 22 • Determine if the site is compliant with NCPC requirements, such as parking maximums.
- 23 • Plan the degree of consistency of program implementation.
- 24 • Detail the relationship of different strategies to the effectiveness of the overall program.

25 The biennial report should answer the following questions defined by NCPC in the Transportation
26 Element Addendum:

- 27 • Have you met your agency TMP milestones? Which milestones are currently in progress?
- 28 • Have any projects been implemented since master plan approval that influence parking?
29 Please include any additional information from the Commission on deviations or conditions.
- 30 • Is there new infrastructure near the campus that influences transportation?
- 31 • What is your current number of employees?
- 32 • What is your current parking ratio?
- 33 • Provide mode choice information for your employees' commuting patterns.

34 It is recommended that FDA consider the following sources of data in order to inform the
35 development of the biennial report.

- 36 • Participate in FDA's annual federal employee transportation mode surveys or perform
37 periodic internal surveys of employees. An example survey is contained in Appendix A.

TRANSPORTATION MANAGEMENT PLAN

Monitoring and Evaluation

- 1 • Perform traffic counts at all the access points. Consider installing automatic vehicle counters
- 2 at the two proposed entrances.
- 3 • Conduct parking utilization counts for all campus parking facilities, including specific
- 4 utilization counts for visitor, electric vehicle, carpool, vanpool, and other special/reserved
- 5 parking spaces.
- 6 • Re-evaluate parking needs to assess the impact of any new buildings and other major
- 7 changes to the Campus.
- 8 • Provide program participation documentation (e.g. number of employees receiving transit
- 9 subsidies, number of registered carpools and vanpools van, preferential parking registration,
- 10 education and outreach information, including number of transportation fairs, meeting
- 11 minutes from pedestrian/bicycle user group and transit user group, etc.).

12 In addition to utilizing this information to complete the required biennial reporting process, FDA
13 should also utilize this data to understand how the TDM strategies are affecting the SOV mode
14 share goals. A biennial review of the performance data will help to identify small changes in
15 mode share as additional measures are implemented. For example, FDA could monitor how
16 SOV mode share changes once a shuttle is provided to the Muirkirk MARC station. Furthermore, if
17 the MRC West Campus TMP becomes a component of a larger, area-wide TMP, then each
18 agency and campus should be responsible for providing the data to one overall biennial report.

TRANSPORTATION MANAGEMENT PLAN

References

1 8.0 REFERENCES

- 2 Bureau of Engraving and Printing (BEP), 2020. Transportation Impact Study Full Report with
3 Appendices. Prepared for BEP by Alliance Consulting Group. June 2020.
- 4 Commuter Connections. Park and Ride Lots in the Metropolitan Washington/Baltimore Regions.
5 Available online: [https://www.commuterconnections.org/park-ride-lots-in-the-](https://www.commuterconnections.org/park-ride-lots-in-the-metropolitan-washington-baltimore-regions/)
6 [metropolitan-washington-baltimore-regions/](https://www.commuterconnections.org/park-ride-lots-in-the-metropolitan-washington-baltimore-regions/). Accessed January 2021.
- 7 LegiScan, 2019. Washington D.C. Council Bill 230148 (Transportation Benefits Equity Amendment
8 Act of 2019). Available online: DC B23-0148 | 2019-2020 | 23rd Council | LegiScan.
9 Accessed January 2021.
- 10 Maryland Department of Labor. Maryland Accessibility Code for Buildings and Facilities, COMAR
11 09.12.53. January 1, 2012.
- 12 Maryland Department of Transportation, 2019. 2040 Maryland Transportation Plan. January 2019.
- 13 Maryland Department of Transportation, 2019. 2040 Maryland Bicycle and Pedestrian Master
14 Plan 2019 Update. January 2019.
- 15 Maryland Department of Transportation, 2020. FY 2021 – FY 2026 Consolidated Transportation
16 Program.
- 17 Maryland Department of Transportation, 2021. 2021 Attainment Report on Transportation System
18 Performance.
- 19 Maryland Department of Transportation State Highway Administration. I-TMS MDOT Annual
20 Average Daily Traffic (AADT) Locator. Accessed January 2021.
- 21 Maryland Department of Transportation Maryland Transit Administration (MDOT MTA), 2020.
22 Available online: [https://s3.amazonaws.com/mta-website-staging/mta-website-](https://s3.amazonaws.com/mta-website-staging/mta-website-staging/files/System%20Maps/MARC_CommuterBus_Combined_Map_02_2020.pdf)
23 [staging/files/System%20Maps/MARC_CommuterBus_Combined_Map_02_2020.pdf](https://s3.amazonaws.com/mta-website-staging/mta-website-staging/files/System%20Maps/MARC_CommuterBus_Combined_Map_02_2020.pdf).
24 Accessed April 11, 2021
- 25 Maryland-National Capital Park and Planning Commission, 2018. Plan Prince George’s 2035
26 General Approved Plan. July 2018.
- 27 Maryland-National Capital Park and Planning Commission. PGAtlas. Available online:
28 <https://www.pgatlas.com/>. Accessed January 2021.
- 29 Metropolitan Washington Council of Governments, 2010. Region Forward: A Comprehensive
30 Guide for Regional Planning and Measuring Progress on the 21st Century. January 2010.

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References

- 1 Montgomery County, 2021. Bus Rapid Transit: US 29. Available: Bus Rapid Transit: US 29 (P501912)
- 2 | Montgomery County Maryland Capital Budget (montgomerycountymd.gov).
- 3 Accessed: January 2021.

- 4 National Capital Planning Commission, 2020. The Comprehensive Plan for the National Capital:
- 5 Federal Elements – Transportation Element.

- 6 O.R. George & Associates, Inc., 2005. Traffic Impact Study for the Brickyard Preliminary Plan
- 7 Application, Beltsville, Prince George’s County, Maryland. March 31, 2005.

- 8 Purple Line MD, 2021. Purple Line Alignment. Available online:
- 9 [https://www.purplelinemd.com/component/jdownloads/send/16-maps/53-purple-line-](https://www.purplelinemd.com/component/jdownloads/send/16-maps/53-purple-line-alignment-map)
- 10 [alignment-map](https://www.purplelinemd.com/component/jdownloads/send/16-maps/53-purple-line-alignment-map). Accessed: January 2021.

- 11 Regional Transportation Authority of Central Maryland (RTA), 2021. *302 Greenbelt Metro Station*.
- 12 Available Online: <https://www.transitrt.com/wp-content/uploads/2021/03/302.pdf>.
- 13 Accessed: April 11, 2021.

- 14 RideAmigos, 2021. Advanced Rideshare/Carpool Platform. Available Online:
- 15 <https://rideamigos.com/platform/rideshare/>. Accessed: January 2021.

- 16 The Traffic Group, 2008. Traffic Impact Study for Preliminary Plan of Subdivision #4-07108
- 17 (Konterra Town Center - East). June 19, 2008.

- 18 The Traffic Group, 2008. Letter Report for Preliminary Plan Subdivision #4-07053 (The Brickyard),
- 19 Prince George’s County, Maryland. January 29, 2008.

- 20 Transportation Planning Board, 2018. Visualize 2045: A Long-Range Transportation Plan for the
- 21 National Capital Region. October 2018.

- 22 Transportation Planning Board, 2020. FY 2021-2024 Transportation Improvement Plan. March 2020.

- 23 U.S. General Services Administration (GSA), 2018. 2018 Master Plan for the Consolidation of the
- 24 U.S. FDA Headquarters at the Federal Research Center at White Oak Located in Silver
- 25 Spring, Maryland, Final Transportation Management Plan. August 2018.

- 26 Washington Metropolitan Area Transit Authority (WMATA). Timetables. Available online:
- 27 <https://www.wmata.com/schedules/timetables/index.cfm>. Accessed January 2021.

- 28 Washington Metropolitan Area Transit Authority (WMATA), 2019. *Metro System Map*. Available
- 29 Online: <https://www.wmata.com/schedules/maps/upload/2019-System-Map.pdf>.
- 30 Accessed: January 2021.

**APPENDIX A:
EXAMPLE ANNUAL EMPLOYEE SURVEY**

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FDA Muirkirk Road Complex (MRC) Transportation Survey For Personnel Currently Located at the MRC

The FDA, in cooperation with the GSA, is developing a Transportation Management Plan for the Muirkirk Road Complex (MRC) and we need your help. Please answer the following questions about your pre-COVID work schedule and commute mode, as well as how you anticipate commuting to the campus after the pandemic subsides. The anonymous information you provide will be used to inform important decisions regarding future transportation options at the MRC.

Please take care not to include personally identifiable information or other sensitive information in any narrative answers you provide.

1. Please indicate the category below that best represents your role on the MRC.

- a. FDA employee
- b. GSA employee
- c. Contractor

2. In which building do you work?

a. Building # (Please select from the drop-down menu.)

b. Other location

3. In what zip code is your home located?

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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4. Which best describes your work schedule before the COVID-19 pandemic? Include days worked from an alternative duty station and/or days worked from home.

- a. Typically work consistent hours (5 days/40 hours per week)
- b. Irregular schedule – late hours or odd shifts (40 hours per week)
- c. Irregular schedule – late hours or odd shifts (more than 40 hours per week)
- d. Alternate work schedule – 9 days 80 hours (you have a day off every other week)
- e. Alternate work schedule – 8 days 80 hours (you have a day off every week)
- f. Part time

5. Before the COVID-19 pandemic, how often did you work at the MRC?

- a. Every workday
- b. 3 – 4 days per week
- c. 1 – 2 days per week
- d. Once per month
- e. Rarely (less than once per month)

6. Before the COVID-19 pandemic, what were your typical arrival and departure times to/from the MRC when working?

a. Arrival Time: (Please select a half-hour interval from the drop-down menu.)

b. Departure Time: (Please select a half-hour interval from the drop-down menu.)

7. Prior to the COVID-19 pandemic, what mode of travel did you primarily use to arrive at the MRC?

- a. Drive alone
- b. Carpool/Slug
- c. Registered Vanpool
- d. Dropped off by private vehicle, taxi, or car service
- e. Bus (Metrobus, MTA Commuter Bus, RTA)
- f. Commuter Rail (MARC/VRE)
- g. Walk
- h. Bike/Scooter
- i. Other

8. Approximately how many miles do you travel to the MRC one way?

- a. 1 – 10 miles
- b. 11 – 20 miles
- c. 21 – 30 miles
- d. 31 – 40 miles
- e. 41 – 50 miles
- f. More than 50 miles

9. Approximately how much time, on average, did it take you to commute from your home to the MRC before the COVID-19 pandemic?

- a. 1 – 10 minutes
- b. 11 – 20 minutes
- c. 21 – 30 minutes
- d. 31 – 45 minutes
- e. 46 – 60 minutes
- f. 61 – 90 minutes
- g. More than 90 minutes

10. If you carpooled as your primary mode of travel before the COVID-19 pandemic, how many persons were assigned to your carpool, including yourself? (Please answer N/A if you do not carpool.)

11. If you vanpooled as your primary mode of travel before the COVID-19 pandemic, how many persons were assigned to your vanpool, including yourself? (Please answer N/A if you do not vanpool.)

12. In your opinion, which of the following applies to the parking conditions at the MRC?

- a. There is not enough parking available.
- b. There is adequate parking available.
- c. There is more parking than is needed.

13. Did you receive a transit subsidy before the COVID-19 pandemic?

- a. Yes
- b. No

14. Were you registered with Commuter Connections Guaranteed Ride Home Service or any other commuter assistance program before the COVID-19 pandemic?

- a. Yes
- b. No

15. If you teleworked from home or an offsite location before the COVID-19 pandemic, how many days per week did you typically telework? (Please select a number between 0.5 and 5 from the drop-down menu.)

16. Please identify the day(s) of the week when you most frequently teleworked before the COVID-19 pandemic. (Please select all that apply.)

- a. Monday
- b. Tuesday
- c. Wednesday
- d. Thursday
- e. Friday

17. Please select the primary reason why you teleworked before the COVID-19 pandemic.

- a. I enjoy working out of my home or other off-campus location.
- b. My commute to the MRC campus is too long and/or too stressful.
- c. Parking is too difficult to find on campus.
- d. I must be close to home to care for a dependent immediately after work.
- e. I am required by my organization to office share/hot desk/hotel/deskshare.
- f. Other

18. If you did not typically telework prior to the COVID-19 pandemic, why?

- a. Distractions at home
- b. IT/AV/telecommunications/network issues
- c. I need/like to interact in person with coworkers.
- d. I need to use resources at the MRC to do my work (e.g., labs, animals, etc.).
- e. Teleworking was not supported by my supervisor and/or the agency.
- f. Other

19. Before the COVID-19 pandemic did you ever walk or bike to work at the MRC?

- a. Yes
- b. No

20. If you answered Yes to Question 19, how often did you walk or bike to work at the MRC?

- a. Every day (year-round)
- b. Every day (seasonally)
- c. 2-4 times per week
- d. Once per week
- e. Once per month
- f. Rarely

21. If you answered Yes to Question 19, were there any issues that you encountered on or off the campus when biking or walking to work? (Please briefly describe)

- a. No.
- b. Yes

22. Do you anticipate that your work schedule/habits will be different after the COVID-19 pandemic subsides from how they were before the COVID-19 pandemic?

- a. No – the COVID-19 pandemic has not affected when or where I work.
- b. No – I will return to my work location on the MRC once it is safe to do so.
- c. Yes – I anticipate that I will work from home full time.

d. Yes – I will return to my work location on the MRC but I expect to work from home more often.

23. Do you anticipate changing how you commute to/from the MRC after the COVID-19 pandemic subsides?

- a. Yes
- b. No

24. If you answered yes to Question 23, what is your anticipated primary commute mode to the MRC after the COVID-19 pandemic subsides?

- a. Drive alone
- b. Carpool/Slug
- c. Registered Vanpool
- d. Dropped off by private vehicle, taxi, or car service
- e. Bus (Metrobus, Commuter Bus, RTA)
- f. Commuter Rail (MARC/VRE)
- g. Walk
- h. Bike/Scooter
- i. Other

25. If you typically drove alone to the MRC before the COVID-19 pandemic, would you be willing to consider any alternative forms of travel after the COVID-19 pandemic subsides?

- a. Yes
- b. No

26. If you answered No to Question 25, why would you be unwilling to consider an alternative form of travel? (Please select your top three reasons)

- a. The cost is too high
- b. I need car during the day for work
- c. I need car during the day for personal use
- d. There are no park-and-ride facilities close to my home
- e. I have an unpredictable schedule
- f. I need car for childcare drop-off/pick-up
- g. I like the comfort/convenience of my own vehicle
- h. I will have continued concerns about social distancing, even after the COVID-19 pandemic subsides.
- i. Transit schedules are inconvenient.
- j. Transit travel time is too long.
- k. There are no transit stops close to my home.
- l. The transit stop is too far from the MRC.
- m. I do not understand how to use the transit system to get to/from the MRC.
- n. Other

27. Are there any improvements to services that would encourage you to commute to the MRC by other modes post-COVID? (Please select all that apply)

- a. More mass transit options from my home that connect to/near the MRC
- b. Frequent express bus/train services to/near the MRC.
- c. Earlier transit service in the morning or later service in the evening to accommodate irregular shifts
- d. Increase the frequency, reliability, safety, and/or comfort of public transit
- e. Additional parking at MARC stations and Park and Rides
- f. Bikeshare or e-scooters to travel between the Muirkirk MARC station and the MRC
- g. Direct transit connection between a Park and Ride near my home and the MRC
- h. Fewer number of seat changes (transfers) to get between my home and the MRC
- i. Shuttle connection between the MRC and the Muirkirk MARC station
- j. Shuttle connection between the MRC and a park-and-ride facility near your home

- k. Improved bus stop accommodations at the campus entrance
- l. Decrease in transit travel time and cost
- m. Assistance with forming a carpool or vanpool
- n. Not willing to consider other modes
- o. Other

28. Do you have any other comments, questions, or concerns? Please take care not to include personally identifiable information or other sensitive information in the narrative answers you provide below.